

EXHIBIT 44



Planet Depos®
We Make It *Happen*™

Transcript of Peter Striupaitis, Volume 2

Date: October 2, 2020

Case: Pursley -v- The City of Rockford, et al.

Planet Depos

Phone: 888.433.3767

Email: transcripts@planetdepos.com

www.planetdepos.com

Transcript of Peter Striupaitis, Volume 2
Conducted on October 2, 2020

1 (63 to 66)

<p>63</p> <p>1 IN THE UNITED STATES DISTRICT COURT</p> <p>2 FOR THE NORTHERN DISTRICT OF ILLINOIS</p> <p>3 PATRICK PURSLEY, :</p> <p>4 :</p> <p>5 Plaintiff, :</p> <p>6 :</p> <p>7 Vs. : Case No:</p> <p>8 : 3:18-cv-50040</p> <p>9 THE CITY OF ROCKFORD, et al :</p> <p>10 :</p> <p>11 Defendants. : Volume 2</p> <p>12 -----</p> <p>13 VIDEOCONFERENCE</p> <p>14 DEPOSITION OF: PETER STRIUPAITIS</p> <p>15 ON BEHALF OF: Plaintiff</p> <p>16 DATE: Friday, October 2, 2020</p> <p>17 TIME: 10:03 a.m. to 4:05 p.m.</p> <p>18 PLACE: Via videoconference</p> <p>19 STENOGRAPHICALLY</p> <p>20 REPORTED VIA</p> <p>21 WEB BY: KENNETH A. REGAN</p> <p>22 Court Reporter</p> <p>23 Notary Public</p> <p>24 State of Florida at Large</p>	<p>65</p> <p>1 APPEARANCES CONTINUED:</p> <p>2</p> <p>3 SUNIL S. BHAVE, ESQUIRE</p> <p>4 Assistant Attorney General</p> <p>5 100 West Randolph Street</p> <p>6 13th Floor</p> <p>7 Chicago, Illinois 60601</p> <p>8 312-814-6122</p> <p>9 -- Attorney for Daniel Gunnell, Peter</p> <p>10 Striupaitis and Jack Welty</p> <p>11</p> <p>12 ROBERT C. POTTINGER, ESQUIRE</p> <p>13 Barrick, Switzer, Long, Balsley & Van Evera,</p> <p>14 LLP</p> <p>15 6833 Stalter Drive</p> <p>16 Rockford, Illinois 61108</p> <p>17 815-962-6611</p> <p>18</p> <p>19 -- Attorney for Howard Forrester, Gary</p> <p>20 Reffett and David Ekedahl:</p> <p>21</p> <p>22 (All parties appeared via videoconference.)</p> <p>23</p> <p>24</p>
<p>64</p> <p>1 APPEARANCES:</p> <p>2</p> <p>3 ASHLEY WADDELL TINGSTAD, ESQUIRE</p> <p>4 Hooper Hathaway, P.C.</p> <p>5 126 South State Street</p> <p>6 Ann Arbor, Michigan 48104</p> <p>7 734-662-4426</p> <p>8</p> <p>9 ALISON LEFF, ESQUIRE</p> <p>10 Loevy & Loevy</p> <p>11 311 North Aberdeen Street</p> <p>12 3rd Floor</p> <p>13 Chicago, Illinois 60607</p> <p>14 312-243-5902</p> <p>15 -- Attorneys for the Plaintiff</p> <p>16</p> <p>17 MICHAEL IASPARRO, ESQUIRE</p> <p>18 Hinshaw & Culbertson, LLP</p> <p>19 100 Park Avenue</p> <p>20 Rockford, Illinois 61101</p> <p>21 815-490-4900</p> <p>22 -- Attorney for Jim Bowman, Ron Gallardo,</p> <p>23 John Genes, Greg Hanson, Jeff Houde, Sam</p> <p>24 Pobjecky and Mark Schmidt</p> <p>25</p> <p>26 JOEL M. HUOTARI, ESQUIRE</p> <p>27 Williams McCarthy, LLP</p> <p>28 120 West State Street</p> <p>29 P.O. Box 219</p> <p>30 Rockford, Illinois 61105</p> <p>31 815-987-8948</p> <p>32 -- Attorney for James Barton, Stephen</p> <p>33 Pirages, Doug Williams and Bruce Scott</p> <p>34</p>	<p>66</p> <p>1 INDEX TO PROCEEDINGS AND EXHIBITS</p> <p>2 PETER STRIUPAITIS PAGE</p> <p>3 Direct Examination BY MS. TINGSTAD: 69</p> <p>4</p> <p>5 Ex. No. 1 - Evidence receipt: 158</p> <p>6 Ex. No. 2 - Gunnell police report: 167</p> <p>7 Ex. No. 3 - An email chain: 210</p> <p>8 Ex. No. 4 - 12/7/16 memorandum opinion</p> <p>9 of Dan Gunnell: 243</p> <p>10 Ex. No. 5 - Peter Striupaitis curriculum vitae: 249</p> <p>11</p> <p>12</p> <p>13 Cross Examination by BY MR. HUOTARI: 260</p> <p>14 Cross Examination by BY MR. BHAVE: 263</p> <p>15 Redirect Examination BY MS. TINGSTAD: 265</p> <p>16 Acknowledgement of Deponent: 268</p> <p>17 Certificate of Court Reporter - Notary Public: 269</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p>

Conducted on October 2, 2020

<p style="text-align: right;">67</p> <p>1 (Whereupon, the proceedings commenced at 2 10:03 a.m.) 3 THE STENOGRAPHIC REPORTER: Will 4 everyone please announce themselves and who they 5 represent if they are counsel? 6 MS. LEFF: Sure. Good morning. This is 7 Alison Leff. I represent the Plaintiff, 8 Patrick Pursley, along with Ashley Tingstad. 9 MR. POTTINGER: I'm Robert Pottinger. I 10 represent the Estates of Howard Forrester, David 11 Ekedahl, and Gary Reffett. 12 MR. IASPARRO: This is Michael Iasparro, 13 with Hinshaw and Culbertson. I represent 14 individual Defendants Houde, Hanson, Gen -- 15 Genens, Gallardo, Schmidt, Pobjecky, and Bowman. 16 MR. HUOTARI: And good morning. This is 17 Joel Huotari speaking. I represent Christine 18 Bishop, formally known as Christine Macanally; 19 James Barton; Bruce Scott; Doug Williams; and 20 Steven Pirages. 21 MR. BHAVE: Good morning. This is 22 Sunil Bhave; B-H-A-V-E, and I'm here with Erin 23 Walsh and Amanda Kozar. They are both on here 24 as well. And the three of us, we represent</p>	<p style="text-align: right;">69</p> <p>1 somebody states otherwise. It makes it a lot 2 easier on the court reporter. 3 MS. TINGSTAD: Yeah. I think that -- I 4 think makes a lot of sense, and I appreciate 5 that, mm-hmm. 6 THE STENOGRAPHIC REPORTER: Okay. All 7 right. Now, will the witness please raise their 8 right hand? 9 THE WITNESS: (Complies.) 10 THE STENOGRAPHIC REPORTER: Do you 11 solemnly swear, or affirm, to tell the truth, 12 the whole truth, and nothing but the truth? 13 THE WITNESS: I do. 14 THE STENOGRAPHIC REPORTER: Thank you. 15 PETER STRIUPAITIS, 16 called as a witness, having been duly sworn, was examined 17 and testified as follows: 18 DIRECT EXAMINATION 19 BY MS. TINGSTAD: 20 Q. Okay. We can get started. Good morning 21 again, Mr. Striupaitis. My name is Ashley Waddell 22 Tingstad, and I am -- I represent the Plaintiff in this 23 case. 24 I know that you -- this is actually a</p>
<p style="text-align: right;">68</p> <p>1 Illinois State Police Defendants Dan Gunnell, 2 Peter Striupaitis, and Jack Welty. 3 And Peter Striupaitis is here today. He's 4 the deponent sitting next to me. 5 THE STENOGRAPHIC REPORTER: Okay. 6 That's everyone? All right. 7 MR. HUOTARI: As I mentioned, there's 8 another attorney who may be joining us later, 9 and for the record, his name is Ephani Mulbana, 10 and he represents the City of Rockford in case 11 you hear him join in. That would be who that 12 might be. 13 THE STENOGRAPHIC REPORTER: Okay. And, 14 Counsel, for the record, would you kindly 15 confirm that there is no objection to my 16 administering the oath to the witness while not 17 being in his presence, and that you will not 18 object to the admissibility of the transcript 19 being based on the oath? 20 ALL COUNSEL: No objection. 21 MR. POTTINGER: And, Ashley, in a prior 22 deposition, we'd actually agreed that one 23 objection from the Defendant would be shared -- 24 would be mutual to all of the Defendants unless</p>	<p style="text-align: right;">70</p> <p>1 continuation of your deposition, and that if -- you 2 started back on July 15th, so at least a few months have 3 gone by. I'm just going to go over some of the ground 4 rules just to remind everyone. 5 This deposition is conducted pursuant to the 6 Federal Rules of Civil Procedure and agreement by all 7 parties. It's being conducted on Zoom. It's actually 8 not being audio and video recorded today. It's only 9 being transcribed by the court reporter, who introduced 10 himself to us. 11 And as noted by other counsel, it's 12 important that we all -- one person talks at a time so 13 that the court reporter is able to note everything that's 14 transcribing -- that's occurring. So in order for him to 15 do his job, we are all going to just take turns and make 16 sure we don't talk over each other. 17 And Mr. Striupaitis, if you don't mind, just 18 making sure you verbalize your responses, you know, 19 instead of nodding and things like that. 20 Some of the attorneys may object after I ask 21 a question. Just wait for them to make their objection, 22 and then you can answer the question unless your attorney 23 specifically instructs you not to answer. 24 If you need me to repeat the question, if</p>

Conducted on October 2, 2020

<p>71</p> <p>1 it's not clear, or you feel a little confused by what's 2 been asked, or an objection throws you off, just ask -- 3 ask for repetition. That's no problem at all. 4 If you do answer a question, I'm going to 5 assume that you understood me, so it's important to ask 6 for clarification if you need it. 7 A. Very good. 8 Q. And if you need any breaks, feel free to ask 9 for them, okay? 10 A. Okay. 11 Q. All right. So Mr. Striupaitis, you started 12 doing microscope firearm and toolmark work in 1978, 13 right? 14 A. I started working with the State and 15 formally was trained in microscope work in 19 -- wow, you 16 caught me there. Let's see. I was 30-years-old in 1980 17 technically. 18 Q. Okay. Okay. And when you joined the ISP in 19 1980, you trained as a fire mark and toolmark analyst at 20 the Juliette crime lab, correct? 21 A. That's correct. 22 Q. Okay. 23 A. That's firearm and toolmark. 24 Q. Firearm and toolmark?</p>	<p>73</p> <p>1 A. Toolmark is -- firearm identification, you 2 deal -- there is -- there is harder -- an option -- 3 harder object comes in conduct with a softer object. 4 Q. Right. 5 A. So the premise of toolmark identification 6 carries over into firearm identification. 7 So to answer your question: No, I didn't do 8 fire -- I was working firearm -- I was working toolmark 9 cases and then being trained in firearms. 10 Q. So you trained in firearms then for about 18 11 to 24 months? 12 A. That's correct. 13 Q. And there was about a two-year training? 14 A. That's correct. 15 Q. So from 1980 to 1982, you were a toolmark 16 and firearm trainee, and you were what you called level 17 1? 18 A. Yeah, forensic scientist 1. 19 Q. Forensic scientist 1. 20 A. The training was two years, and then after 21 that, then I worked casework in toolmark and firearm 22 identification. 23 Q. Okay. So after two years of training, then 24 you started taking your own independent casework?</p>
<p>72</p> <p>1 A. Yes, ma'am. 2 Q. And you trained in firearm and toolmark for 3 about six months, and then you started working cases? 4 A. I was trained in toolmark identification for 5 six months. 6 Q. Okay. 7 A. And started working toolmark cases, and then 8 I was trained in firearm identification as well during 9 that process. 10 Q. And so can you just tell me what a strict 11 toolmark case would be? 12 A. Say for instance, there would be, like, a 13 burglary case and a screwdriver is used to pry open the 14 door. 15 Q. Okay. 16 A. And just the -- the police agency would 17 submit the items -- the toolmarks that were present on 18 that door and the tool, and I would make test marks, and 19 then compare them on the comparison microscope. 20 Q. So is it fair to say that the strict 21 toolmark training and work you were doing didn't involve 22 fired weapons? 23 A. No. But if I can -- if I can elaborate? 24 Q. Mm-hmm.</p>	<p>74</p> <p>1 A. That's correct. 2 Q. As a level 1 forensic scientist? 3 A. Yes, that's correct. 4 Q. Okay. 5 A. Could I inject something there? 6 Q. Sure. 7 A. I -- I actually finished in 18 months. 8 Q. Oh, so you finished early? 9 A. And then went -- I signed to the Maywood 10 Laboratory. 11 Q. Okay. Is that because you just studied 12 extra hard or -- 13 A. I was done with the training, and they need 14 an examiner there. 15 Q. Okay. 16 A. In my supervisor's opinion. 17 Q. So as a level 1 forensic scientist, what 18 does it mean to be level 1? Is there more supervision? 19 A. Cases are -- are looked at, but you do -- 20 you are an independent examiner and work the cases 21 independently. 22 Q. Okay. How -- how is it different from being 23 level 2, in terms of supervision? 24 A. It's just salary basically, you know. It's,</p>

Conducted on October 2, 2020

<p>75</p> <p>1 like, first two -- to the best of my recollection, the</p> <p>2 first two years, you're a one, and after five, you're a</p> <p>3 two, and after that, you're a three.</p> <p>4 Q. Is that -- so the levels that you're</p> <p>5 describing are actually salary steps within ISP?</p> <p>6 A. Yes, ma'am.</p> <p>7 Q. And that --</p> <p>8 A. That's correct.</p> <p>9 Q. And they don't have any bearing on the level</p> <p>10 of supervision or extra training that might be required</p> <p>11 for an examiner?</p> <p>12 A. Well, there's ongoing continuing education,</p> <p>13 but otherwise, it's pretty much the same.</p> <p>14 Q. Okay. So after you completed your training</p> <p>15 in Juliette, you moved -- you said you moved to Maywood</p> <p>16 Lab?</p> <p>17 A. Yes, ma'am, that's correct.</p> <p>18 Q. Where is the Maywood Lab?</p> <p>19 A. It was located in the basement of the Cook</p> <p>20 County Sheriff's Headquarters in Maywood, Illinois. It's</p> <p>21 adjacent to the courthouse there.</p> <p>22 Q. Is it -- does it still exist?</p> <p>23 A. No, it does not.</p> <p>24 Q. So that was in around 1982 that you moved to</p>	<p>77</p> <p>1 individual.</p> <p>2 Q. Who was that? Who are you referring to?</p> <p>3 A. Oh, God. It eludes me right now, and I --</p> <p>4 it shouldn't. I could see his face, but I don't recall</p> <p>5 his name.</p> <p>6 Q. Is this someone at ISP you're referring to?</p> <p>7 A. What do you mean, IC --</p> <p>8 Q. ISP, ISP.</p> <p>9 A. Yeah, ISP Juliette Lab.</p> <p>10 Q. Oh, you're referring to someone at the ISP</p> <p>11 Juliette Lab?</p> <p>12 A. Yeah, yeah, and it will come back to me.</p> <p>13 But I don't -- it's -- and he -- he specifically was --</p> <p>14 he was thorough, and he was unwavering, and it would be</p> <p>15 one per day, from opening it up to working it, to writing</p> <p>16 the report.</p> <p>17 Okay. I remember his name. His name is</p> <p>18 Robert Hunton, H-u-n-t-o-n.</p> <p>19 Q. Do you consider that to be a pretty good</p> <p>20 standard that Robert Hunton set?</p> <p>21 A. I think it was Robert Hunton's standard, and</p> <p>22 I think that individuals were able to do more than --</p> <p>23 than -- you know, and it just -- that's the way Bob is or</p> <p>24 was, is unwavering. He just was strict that way.</p>
<p>76</p> <p>1 the Maywood Lab as a level 1 forensic scientist?</p> <p>2 A. Yes, that's correct.</p> <p>3 Q. About how many cases would you say you</p> <p>4 worked as a forensic scientist in the Maywood Lab from</p> <p>5 about -- from 1982 to '85?</p> <p>6 A. I would say on the average of 10 to 20 a</p> <p>7 month.</p> <p>8 Q. 10 to 20 cases per month?</p> <p>9 A. Yes, ma'am.</p> <p>10 Q. Okay. And about how long would each</p> <p>11 examination take you when you were working at the Maywood</p> <p>12 Lab?</p> <p>13 A. It would depend on the items that were</p> <p>14 submitted and -- and the complexity of the case.</p> <p>15 Sometimes the scope took a little bit longer. Sometimes</p> <p>16 it was forthright, and it did not.</p> <p>17 Q. For cases that are more forthright, how --</p> <p>18 about how long would those take?</p> <p>19 A. I think that the general rule of thumb with</p> <p>20 the one individual that just retired was he would</p> <p>21 complete one per day from start to finish.</p> <p>22 Q. Mm-hmm.</p> <p>23 A. Others could do two per day, but the one</p> <p>24 that retired was a very thorough, very thorough</p>	<p>78</p> <p>1 Q. Very systematic?</p> <p>2 A. Yes, ma'am.</p> <p>3 Q. When you were a new forensic examiner at the</p> <p>4 Maywood Lab in that period from 1982 to '85, did you</p> <p>5 testify in court?</p> <p>6 A. I believe I did.</p> <p>7 Q. And about how many times or how often do you</p> <p>8 recall testifying?</p> <p>9 A. You know, I -- I really don't recall. It</p> <p>10 was mostly cases that were -- well, it was mostly cases</p> <p>11 that were -- we worked, and we testified in the</p> <p>12 courthouse across the way --</p> <p>13 Q. Mm-hmm.</p> <p>14 A. -- in Maywood, but we did receive some cases</p> <p>15 from other laboratories that there was a surplus or a</p> <p>16 backlog, and actually my first toolmark case was a</p> <p>17 St. Clair County case in St. Clair County, which was</p> <p>18 around east St. Louis area.</p> <p>19 Q. So you also took some backlog cases from</p> <p>20 other counties?</p> <p>21 A. Yes, ma'am, that's correct.</p> <p>22 Q. At this time when you were working the</p> <p>23 Maywood Lab, did you have a capability to take</p> <p>24 photographs of the items you were looking at?</p>

Conducted on October 2, 2020

<p>79</p> <p>1 A. No, I don't -- at that particular point in 2 time, that was not the policy. That came later. 3 Q. Did you -- were you subjected to anything, 4 like, random reanalysis? Did they do any of that in the 5 1980s? 6 A. There was -- I think there was quality 7 assurance that existed, and in quality assurance, a 8 number of cases -- the files are reviewed just 9 administratively, and then the actual items of the case 10 are reviewed for, I don't know, one or a couple of cases. 11 Q. Did you -- was there a verification process 12 in place at that time in -- in the Maywood Lab? 13 A. I don't believe so, no. 14 Q. A few more about that in a bit. But let's 15 -- okay. 16 So in 1985 -- 17 A. Mm-hmm. 18 Q. -- you had spent five years then at a level 19 1. You became a level 2 in 1985? 20 A. 1985, I became an assistant lab director. 21 Q. Assistant lab director, okay. 22 A. Right, and I did that seven years. 23 Q. And you moved that -- you moved to the 24 Broadview Lab to do that?</p>	<p>81</p> <p>1 So I believe I was -- I was doing -- at one particular 2 point, verifications were brought in during that process. 3 Q. During the time that you were an assistant 4 lab director -- 5 A. Yes -- 6 Q. -- verifications began? 7 A. Yes. I don't know specifically when, but 8 they did -- they did begin. There was an influx of 9 individuals from the Chicago Police Department, and they 10 felt that there was a need for that, and that's how it -- 11 that's how it occurred. 12 Q. And you -- were some of those people from 13 the Chicago Police Department, were they retired firearm 14 and toolmark analysts? 15 A. Yes. Well, they never really retired. They 16 just left the Chicago PD and came onboard with the State. 17 Q. With ISP? 18 A. Yes, ma'am. 19 Q. And Chicago PD had its own lab that it was 20 using -- 21 A. Yes. 22 Q. -- where those folks were using? 23 A. Yes, ma'am. 24 Q. Does it still have its own lab?</p>
<p>80</p> <p>1 A. Yes. There was a need for us to expand, and 2 I was assistant lab director at the Broadview -- 3 Broadview branch, we would call it. 4 Q. And what were your responsibilities as 5 assistant lab director at the Broadview branch? 6 A. I would perform performance evaluations for 7 the employees that were my subordinates. I would place 8 orders for commodities and supplies. I would deal with 9 State's attorneys that -- that had questions in regard to 10 the subordinates' cases, and I attended -- detectives -- 11 there was -- there was, like, west suburban chiefs, south 12 suburban chiefs. So there was, like, PR stuff that was 13 going on that I would attend with my -- with my boss. 14 And he was -- 15 Q. Who was your boss at the time? Who was your 16 boss at the time? 17 A. Dr. -- Dr. Donald Plautz, P-l-a-u-t-z. 18 Q. Okay. And so at the time that you were an 19 assistant lab director in Broadview for seven years -- 20 A. Mm-hmm. 21 Q. -- you weren't a forensic scientist? You 22 weren't doing forensic examinations? 23 A. Well, actually, I was, because my boss 24 wanted me to keep my eye in the microscopy aspect of it.</p>	<p>82</p> <p>1 A. Do they now currently have? 2 Q. Yeah, yeah. 3 A. No. 4 Q. It's all ISP now? 5 A. It's all ISP now. 6 Q. So -- 7 A. You know what? Let me -- let me retract 8 that. 9 They did initiate a firearms aspect of it a 10 few years ago because the lab, budgetarily, was a concern 11 for Mayor Daley, and the State is mandated to work cases, 12 so then the Forensic Science Center was opened up in 13 Chicago, and the Chicago laboratory was closed. 14 Subsequently, a few years back, just -- just the firearms 15 section opened up with the Chicago PD. 16 Q. Okay. Why -- why did those Chicago PD 17 forensic scientists feel that verifications needed to be 18 added to the ISP process? 19 MR. BHAVE: Objection; foundation and 20 speculation. 21 BY MS. TINGSTAD: 22 Q. You can answer, if you know. 23 A. I believe it's something that they have 24 worked with at their laboratory, and they felt there was</p>

Conducted on October 2, 2020

<p style="text-align: right;">83</p> <p>1 a need for it at the State Police.</p> <p>2 Q. In your own words, what is the importance of</p> <p>3 -- of verification in the forensic science process?</p> <p>4 A. Well, it's not just an independent look-see.</p> <p>5 You have another individual that verifies what it is, in</p> <p>6 fact, that you see through the comparison microscope.</p> <p>7 Q. So four eyes are better than one or two?</p> <p>8 A. If that's how you want to phrase it, sure.</p> <p>9 Q. So you were assistant lab director when the</p> <p>10 verification process was being rolled out.</p> <p>11 Did you have a responsibility to enact that</p> <p>12 in your lab?</p> <p>13 A. Did I do that at my lab?</p> <p>14 Q. Well, did you -- what role did you play at</p> <p>15 all?</p> <p>16 A. It was -- it was enacted by the firearms</p> <p>17 personnel, and then, in turn, my boss said, "You should</p> <p>18 keep your eye in it," so I actually did verifications.</p> <p>19 Q. At the time that that was rolled out, was</p> <p>20 there any training that was instituted for how to do</p> <p>21 verifications?</p> <p>22 A. If you are an examiner and you're viewing</p> <p>23 it -- microscopic evidence as you would in -- in a case,</p> <p>24 however, you are only looking at the fired evidence</p>	<p style="text-align: right;">85</p> <p>1 think it was instituted at laboratories where there was</p> <p>2 only one -- one firearms examiner, and then, in turn,</p> <p>3 someone in management who had firearms examiner</p> <p>4 qualifications was able to do that.</p> <p>5 Q. Okay. You mentioned -- and I'm going to</p> <p>6 talk a little bit more about the process for</p> <p>7 verification, but you did mention that it was just to</p> <p>8 look at the fired-bullet evidence on the scope?</p> <p>9 A. Yes, ma'am.</p> <p>10 Q. Is that -- as opposed to what? As opposed</p> <p>11 to actually firing the test gun yourself or what --</p> <p>12 A. As opposed to working the whole case.</p> <p>13 Q. What did you mean by that?</p> <p>14 A. As opposed to signing it in, working up the</p> <p>15 worksheets, making notations, test firing --</p> <p>16 Q. Okay.</p> <p>17 A. -- and then making an identification.</p> <p>18 Q. So it's really -- it was really just about</p> <p>19 looking through the scope?</p> <p>20 A. And looking at the fired evidence and verify</p> <p>21 it.</p> <p>22 Q. As far as you know, in the early days of --</p> <p>23 of verification, were there any written procedures that</p> <p>24 were handed down by ISP about -- about verification?</p>
<p style="text-align: right;">84</p> <p>1 that's on the scope and then initialing the worksheet and</p> <p>2 indicating that you verify what the examiner -- the</p> <p>3 primary examiner worked in the case.</p> <p>4 Q. So there wasn't -- there wasn't any specific</p> <p>5 training involved for the verification process, aside --</p> <p>6 A. No, not to the best of my recollection. It</p> <p>7 was just kind of, like, a rollover.</p> <p>8 Q. A rollover?</p> <p>9 A. Yeah. I don't know if that counts as a</p> <p>10 confirm. But, you know, the statement -- the Chicago guy</p> <p>11 said, "This is a good thing to do," they ran it by the</p> <p>12 State -- the firearms people, and they all concurred, and</p> <p>13 that's what, in fact, was done.</p> <p>14 Q. Were you aware at the time if there was any</p> <p>15 -- any motivating incident or occurrence that -- that</p> <p>16 caused the Chicago PD forensic scientists to feel the</p> <p>17 push for verification was necessary?</p> <p>18 A. No, other than the fact that the Chicago PD</p> <p>19 individuals had been doing that, and they felt that it</p> <p>20 was necessary to be done with the State Police.</p> <p>21 Q. So there was -- at the time that this was</p> <p>22 being instituted and rolled out, were you the only person</p> <p>23 in the Maywood Lab who was doing verifications?</p> <p>24 A. Yes, I believe so. You know, if I recall, I</p>	<p style="text-align: right;">86</p> <p>1 A. I would like to think there were, but I</p> <p>2 don't recall.</p> <p>3 Q. Were there -- in those -- in those</p> <p>4 procedures or in any other way, do you recall that you</p> <p>5 were told -- whether you were told to look out for any</p> <p>6 risks or red flags, specifically as a verifier?</p> <p>7 A. Well, it was -- it was pretty cut and dry.</p> <p>8 You either concurred with what the examiner saw, or you</p> <p>9 didn't, and then if you didn't, there's a possibility of</p> <p>10 another examiner looking at it, as well.</p> <p>11 Q. So let's sort of go to that timeframe that</p> <p>12 you -- where you started -- had started doing</p> <p>13 verifications. So this was, like, the late -- late</p> <p>14 1980s, early 1990s?</p> <p>15 A. Correct. And then after -- after '92, I was</p> <p>16 a forensic scientist again in '93.</p> <p>17 Q. And so then you were -- you were actually</p> <p>18 doing benchwork and the full workups?</p> <p>19 A. Yes, ma'am, that's correct.</p> <p>20 Q. So while you were still a lab -- lab</p> <p>21 assistant or lab director -- assistant lab director,</p> <p>22 excuse me, about how many verifications would you say</p> <p>23 that you would perform per week?</p> <p>24 A. You know, I don't -- I don't recall. I</p>

Conducted on October 2, 2020

<p style="text-align: right;">87</p> <p>1 believe there was -- there was a woman named 2 Karen Vanderworth that was working there, and then 3 Dan Gunnell was working there, and then Don Smith 4 formally of the Chicago Police Department was working 5 there as well.</p> <p>6 Q. In the Maywood Lab? 7 A. At the Broadview branch. 8 Q. Broadview branch. Sorry. 9 And you -- when you were the assistant lab 10 director, they were working there? 11 A. Yes, ma'am. 12 Q. So you had -- would you have all three of 13 them at a time working there or just one at a time? 14 A. I believe it was Karen first, she showed up, 15 and then Dan showed up, and then Don Smith showed up. So 16 I think it was, like, just Karen, then Dan -- Dan and 17 Karen, and then Karen left, and then it was Dan Gunnell 18 and Don Smith. 19 Q. Okay. So you had two firearms examiners who 20 were doing their benchwork, and you were -- after you 21 were -- were you the only one doing the verifications at 22 the time? 23 A. I was doing the verifications when there was 24 only one individual, but then I was asked to do</p>	<p style="text-align: right;">89</p> <p>1 Q. So if I understand you correctly -- 2 A. Yes, ma'am. 3 Q. -- what -- and we'll -- you know, I do want 4 to understand sort of start to finish how this 5 verification process would work back in the early '90s. 6 So -- but from what I understand what you're saying is 7 that there would be an examiner doing the full workup. 8 They would be, you know, looking -- 9 A. Signing it in, initial the packages -- 10 Q. -- signing it -- 11 A. -- weigh the bullets, write up the 12 worksheet. 13 Q. Write everything up. They're looking at it 14 under the microscope. They're trying to find whether or 15 not there is an identification there? 16 A. Correct. 17 Q. So if they find -- if they -- if they're 18 able to line up that microscopic stria or what have you, 19 in the microscope and see what they are determining to be 20 an identification, that might take them a while, right? 21 A. Correct. 22 Q. So once they've done that initial work to 23 sort of get it to the point where they say, "This is how 24 these things are lining up," then they would call over</p>
<p style="text-align: right;">88</p> <p>1 verifications when there were others as well. 2 Q. Okay. So if there was only one examiner 3 there, you would do the verifications, but then if Dan 4 and Don were both there, would they verify each other? 5 A. Generally speaking, yes. 6 Q. Okay. You mentioned that some people could 7 do two full cases a day, and that this Bob Hunton, he did 8 one full case a day as an examiner doing all of the -- 9 the whole workup. 10 As a verifier, about how long would it take 11 you to verify any one identification? 12 A. You know, not very long actually. You know, 13 because you can see through the scope the spacial 14 relationships and the contours and everything like that. 15 It might take the primary a long time to find the 16 identification, but once it was set up on the scope for 17 the verifier to see, then the verifier would -- would -- 18 would see it, and then, in turn, you just -- depending on 19 the condition of the evidence, you can -- you always look 20 at -- for fired bullets, you always look at the complete 21 periphery of the bullet -- of the land impressions. 22 Sometimes the evidence is damaged, but then 23 there's enough to make an identification from what you 24 have of the -- of that evidence.</p>	<p style="text-align: right;">90</p> <p>1 another examiner or the assistant lab director such as 2 yourself, and say, "Can you look at this under my 3 microscope?" Is that how it would go? 4 A. Exactly right, correct. 5 Q. And at the time, would they say, "Come over 6 here and look at my -- look at this identification?" 7 Like, you know, sort of how would those conversations go? 8 A. They would say, "I would like for you to 9 take a look at something that I have on the scope." It 10 wasn't, you know -- it wasn't, you know, "Look at this ID 11 or whatever." It was -- it was, "Look and see what I 12 have under the scope." 13 Q. Mm-hmm. 14 A. And then, in turn, you would review what was 15 under the scope and subsequent -- subsequent fired 16 evidence items. 17 Q. And so would you, as the verifier, do -- 18 manipulate the fired evidence items as well and -- you 19 know, on the scope so you could -- or would you just, you 20 know, look at what was -- had been already set up for you 21 to look at and then sort of go away and then they -- how 22 would it work? 23 A. Well, I would move the evidence around so I 24 could get it to where I wanted it to line up.</p>

Conducted on October 2, 2020

<p>91</p> <p>1 Q. Mm-hmm.</p> <p>2 A. And I would look at it initially, and if I</p> <p>3 saw areas of agreement, that's fine, but then I would</p> <p>4 look at other areas, and I -- there was a distinct</p> <p>5 possibility that I would move it around on the holder to</p> <p>6 get, you know, lighting and areas that -- that I would</p> <p>7 like to see personally when -- when I look at the</p> <p>8 evidence.</p> <p>9 Q. So once you looked at the evidence, would</p> <p>10 the -- would the original examiner have already done</p> <p>11 their worksheet at the time? Would they have already</p> <p>12 completed a worksheet?</p> <p>13 A. They would -- they would have written up the</p> <p>14 worksheet as far as giving the physical description of</p> <p>15 it, and other particulars, the markings that were on the</p> <p>16 packaging and say the caliber and, you know, the physical</p> <p>17 description of that evidence, but they wouldn't -- they</p> <p>18 wouldn't write a report until after it was verified.</p> <p>19 Q. I see. So they wouldn't write up their</p> <p>20 report until after the verifier was able to look through</p> <p>21 it in the scope and say, "I agree this is an</p> <p>22 identification"?</p> <p>23 A. Correct.</p> <p>24 Q. So did you ever have an instance that --</p>	<p>93</p> <p>1 it and see if there was some agreement, but, you know, if</p> <p>2 there wasn't any agreement by the primary, then there</p> <p>3 wouldn't be any agreement with the verifier.</p> <p>4 Q. Mm-hmm. So is it fair to say that if a</p> <p>5 primary examiner looked at two items and said, "I'm going</p> <p>6 to -- this isn't an elimination," that they wouldn't</p> <p>7 actually ask for a verification in that instance?</p> <p>8 A. What -- what do you mean by "elimination"?</p> <p>9 That it's, like, totally -- that it's not -- okay.</p> <p>10 Because the collusions are: It was fired --</p> <p>11 Q. Right.</p> <p>12 A. -- it could have been fired, or it was not</p> <p>13 -- or it's not suitable -- or could -- well, that would</p> <p>14 be four. It would be: Was fired, could have been fired,</p> <p>15 not suitable for identification, or insufficient markings</p> <p>16 for an identification.</p> <p>17 Q. Right. So correct me if I'm wrong, but that</p> <p>18 would be an identification --</p> <p>19 A. Right.</p> <p>20 Q. -- an inconclusive --</p> <p>21 A. Right.</p> <p>22 Q. -- or an elimination?</p> <p>23 A. The elimination would be -- for instance, if</p> <p>24 you had a bullet that was six right, and your evidence</p>
<p>92</p> <p>1 strike that.</p> <p>2 Was it common for the forensic examiners to</p> <p>3 place the two -- to place the items on the scope and line</p> <p>4 them up in the way that they think would show the</p> <p>5 identification?</p> <p>6 A. Yes, they would do that.</p> <p>7 Q. Was it -- was it common for them to place</p> <p>8 two items on the scope that they didn't think lined up</p> <p>9 and -- and ask -- ask a verifier to look at that, to say,</p> <p>10 "Look at this, it doesn't look like it lines up"?</p> <p>11 A. No, they wouldn't --</p> <p>12 Q. No.</p> <p>13 A. They wouldn't do -- the wouldn't do the</p> <p>14 latter. They would -- they would say, "Take a look at</p> <p>15 this. I have something interesting." And generally, it</p> <p>16 was an identification.</p> <p>17 Q. So "something interesting" means, there's</p> <p>18 something lining up here?</p> <p>19 A. Yes, ma'am, that's correct.</p> <p>20 Q. Okay. And if it's a total -- if it's</p> <p>21 mismatched, if it's not lining up, would they bother to</p> <p>22 ask another person to go look at the -- under the scope</p> <p>23 for something that's not lining up?</p> <p>24 A. Well, you could -- you could take a look at</p>	<p>94</p> <p>1 was six left, that would be a total elimination or --</p> <p>2 Q. So that would be -- so let's -- let's --</p> <p>3 let's pause there because I do want to ask you about --</p> <p>4 about all of those categories and about the different</p> <p>5 kinds of characteristics. I do want to ask you about</p> <p>6 those.</p> <p>7 But before I do that, just to talk a little</p> <p>8 bit more about the verification, what I'm hearing you</p> <p>9 saying is that if an examiner called you over to the</p> <p>10 scope and said, "I found something interesting," that</p> <p>11 means, "I found something that lines up, I'm -- I'm</p> <p>12 looking at a potential identification here."</p> <p>13 A. That's correct.</p> <p>14 Q. At that time in the early '90s when you</p> <p>15 would receive a packet of evidence into the lab, did you</p> <p>16 generally -- did you ever have conversations with the</p> <p>17 detectives who were dropping them off?</p> <p>18 A. No.</p> <p>19 Q. Did you ever know anything about the</p> <p>20 evidence that was being submitted?</p> <p>21 A. On occasion, but generally, no. They were</p> <p>22 just, you know, messengers and tourists and evidence</p> <p>23 technicians that were submitting the evidence.</p> <p>24 Q. Did you ever talk on the phone with firearm</p>

Conducted on October 2, 2020

<p style="text-align: right;">95</p> <p>1 -- with detectives who were working any cases?</p> <p>2 A. Generally not, no.</p> <p>3 Q. But occasionally, you might have?</p> <p>4 A. Occasionally, but not -- not very much.</p> <p>5 Q. Did you generally know when you got evidence</p> <p>6 submitted that this was from a murder on the east side of</p> <p>7 town or something like that?</p> <p>8 A. Well, it was -- it would be indicated on the</p> <p>9 Evidence Submittal Sheet, that there was a victim, a</p> <p>10 suspect, and whether it was a death investigation or a</p> <p>11 burglary or a shooting investigation, and then it was</p> <p>12 submitted by a laboratory, and then the -- the items</p> <p>13 would be enumerated in the body of that -- that evidence</p> <p>14 receipt.</p> <p>15 Q. Right. And you would have to sign for that?</p> <p>16 A. Right. And sign for -- you -- you would</p> <p>17 sign for it, and then when you started working up, you</p> <p>18 would initial all the packaging and everything like that,</p> <p>19 and -- and then move forward with it.</p> <p>20 Q. When you were doing -- strike that.</p> <p>21 Over the years -- I know we've been</p> <p>22 specifically talking about the early '90s period there in</p> <p>23 the Broadview branch. But over the years, how many --</p> <p>24 about how many verifications would you say you've done,</p>	<p style="text-align: right;">97</p> <p>1 A. No, not that -- not that I can recall, no.</p> <p>2 Q. So is it fair to say that when you're</p> <p>3 conducting a verification and looking at that evidence</p> <p>4 that's been set up for you by the original examiner on</p> <p>5 the scope, that you're not doing an independent</p> <p>6 examination of the evidence?</p> <p>7 A. No, that wouldn't. I don't think it would</p> <p>8 be fair to say. I'd be -- well, I am -- I am looking at</p> <p>9 the evidence without doing the documentation, and looking</p> <p>10 at the same -- what I would look at if I was the primary.</p> <p>11 Q. Okay.</p> <p>12 A. I'm making a verification.</p> <p>13 Q. So let's talk about the process if you were</p> <p>14 the primary.</p> <p>15 A. Mm-hmm.</p> <p>16 Q. What -- how would you start with -- with</p> <p>17 evidence that you were asked to examine, fired-bullet</p> <p>18 evidence?</p> <p>19 A. Okay. So there would be the pink Evidence</p> <p>20 Submission Form, and I would make sure that the -- what</p> <p>21 was listed on the Evidence Receipt Form corresponded to</p> <p>22 the evidence that I had in my possession.</p> <p>23 And first of all, it was placed in a secured</p> <p>24 area that -- that will, like -- there was, like, limited</p>
<p style="text-align: right;">96</p> <p>1 like thousands?</p> <p>2 A. No, no, not -- not thousands. I -- I</p> <p>3 couldn't -- I couldn't speculate. Depending on the</p> <p>4 number of examiners there, you know, it might've been</p> <p>5 more at one period in time and less in another because</p> <p>6 there would be another examiner or --</p> <p>7 Q. Mm-hmm.</p> <p>8 A. -- or if the examiners were on vacation, so</p> <p>9 then I would, you know -- would verify it, if I could --</p> <p>10 but I couldn't -- tens, maybe hundreds. I don't know. I</p> <p>11 -- I can't say.</p> <p>12 Q. Hundred -- a few hundreds maybe. Okay.</p> <p>13 A. No, I can't speculate. I really -- I really</p> <p>14 can't.</p> <p>15 Q. Okay. A good number, you know --</p> <p>16 A. A good number, yes.</p> <p>17 Q. So in all of that time doing -- conducting</p> <p>18 those verifications, did you ever disagree with the --</p> <p>19 what the examiner had laid out as a potential</p> <p>20 identification under the scope? Did you ever say, "No, I</p> <p>21 can't verify this"?</p> <p>22 A. No, not that I can recall, no.</p> <p>23 Q. Specifically, did you ever disagree with</p> <p>24 Dan Gunnell in any of his forensic analysis?</p>	<p style="text-align: right;">98</p> <p>1 access, and then retrieve that. It was, like -- there</p> <p>2 would be, like, a section down there that said, you know,</p> <p>3 "firearms".</p> <p>4 So retrieve it, and then, in turn, place the</p> <p>5 evidence in the work area and initial all packaging. But</p> <p>6 down the evidence number, the item number, the case</p> <p>7 number, your initials, and the date that you were working</p> <p>8 it. And then --</p> <p>9 Q. The purpose of all of that -- the purpose of</p> <p>10 all of that is to --</p> <p>11 A. Chain of custody.</p> <p>12 Q. Chain of custody, okay.</p> <p>13 A. Right. So -- and then open it up. Make</p> <p>14 sure that -- you know, it indicated that it was --</p> <p>15 everything was received in a sealed condition. And then,</p> <p>16 you know, I always -- it was kind of, like, an akin to it</p> <p>17 being Christmas all the time. You know, you have this</p> <p>18 package, and you're opening it up, you know.</p> <p>19 So you open it up, and then you have a</p> <p>20 worksheet, and what, in fact, is in front of you, you</p> <p>21 translate onto that worksheet, okay. So if it's a</p> <p>22 discharged cartridge case or if it's a fired bullet, and</p> <p>23 then write down all of the characteristics that you see</p> <p>24 on that worksheet, and then if there's a gun in question,</p>

Conducted on October 2, 2020

<p style="text-align: right;">99</p> <p>1 all the characteristics from the gun. You write down the</p> <p>2 manufacturer, the model number, the barrel length, the</p> <p>3 finish of the gun, and then you'd look at the barrel and</p> <p>4 see what the rifling characteristics were. And then --</p> <p>5 Q. And so these -- these characteristics that</p> <p>6 you're describing, are these class characteristics that</p> <p>7 you're looking at now?</p> <p>8 A. Rifling characteristics, there's -- there's</p> <p>9 -- there's spiral grooves that are cut into a barrel of</p> <p>10 the gun, and then they're either -- they're either to the</p> <p>11 left or to the right, counter-clockwise or clockwise, and</p> <p>12 the reason they're done so is to in part a gyroscopic</p> <p>13 stability to that bullet when it comes out.</p> <p>14 The land impression that's translated from</p> <p>15 the barrel to the -- to the bullet is what we key in on</p> <p>16 -- key in on, on the fired bullet.</p> <p>17 Q. Mm-hmm. And that -- would that be -- that</p> <p>18 would be a class characteristic, correct?</p> <p>19 A. Yeah. Class characteristics are caliber --</p> <p>20 Q. Caliber --</p> <p>21 A. -- which is the diameter.</p> <p>22 Q. Mm-hmm.</p> <p>23 A. Number of lands and grooves, and it varies</p> <p>24 to manufacturer. It could be six, eight, five, and then</p>	<p style="text-align: right;">101</p> <p>1 appropriate -- yes.</p> <p>2 And then those are the class</p> <p>3 characteristics, and then there's individual</p> <p>4 characteristics, which are the characteristics that are</p> <p>5 imparted -- microscopic irregularities that are imparted</p> <p>6 on the gun. The -- that define it as having it come from</p> <p>7 that gun, and they're done in the polishing manner, the</p> <p>8 sanding, filing, you know, what have you, different --</p> <p>9 different -- different ways to impart -- impart</p> <p>10 individually on that -- on that particular firearm.</p> <p>11 Q. So there's class characteristics, and is</p> <p>12 class characteristics between a fired-bullet evidence and</p> <p>13 a submitted weapon -- if they don't match, would that</p> <p>14 lead to an elimination?</p> <p>15 A. Yes. Then that -- like I indicated earlier,</p> <p>16 if the gun characteristics are six right and the bullet</p> <p>17 is six left, there's no way on God's green Earth that</p> <p>18 that bullet was fired from that gun.</p> <p>19 Q. So that would be a full elimination?</p> <p>20 A. Yes, ma'am.</p> <p>21 Q. And can you -- if -- if you see a six right</p> <p>22 gun and a six right twist on a bullet, based on that</p> <p>23 matching of the class characteristics alone, can you</p> <p>24 identify the bullet in the gun?</p>
<p style="text-align: right;">100</p> <p>1 direction of twist.</p> <p>2 Q. Right.</p> <p>3 A. And it can be to the left or to the right,</p> <p>4 and then anything else that was, you know, that was</p> <p>5 pertinent to the gun. If there's an importer on there;</p> <p>6 the serial number; the condition, whether there was --</p> <p>7 whether it was bruised or something was, you know -- you</p> <p>8 know, not the way it was supposed to be; the finish of</p> <p>9 the gun, was it chrome, was it plated, was it glued; the</p> <p>10 overall, the length of the barrel; the overall length of</p> <p>11 the firearm; and any other, you know, physical</p> <p>12 characteristics.</p> <p>13 So getting back to the class</p> <p>14 characteristics. So class characteristics are caliber,</p> <p>15 number of lands and grooves, and direction of twists, to</p> <p>16 name a few.</p> <p>17 Q. What would be the definition of a class</p> <p>18 characteristic?</p> <p>19 A. It would be characteristics that are common</p> <p>20 to many firearms that are manufactured.</p> <p>21 Q. Are they -- are they characteristics that</p> <p>22 the manufacturer has -- the manufacturer -- part of the</p> <p>23 manufacturer's design of the weapon?</p> <p>24 A. Yes, that would be -- that would be the</p>	<p style="text-align: right;">102</p> <p>1 A. Well, it's certainly something that we look</p> <p>2 at in -- in the process, but you can have two different</p> <p>3 manufacturers of six right, and they could have different</p> <p>4 dimensions as far as the width of the lands and grooves.</p> <p>5 Q. Mm-hmm.</p> <p>6 A. But if the width of the lands and grooves</p> <p>7 corresponds to the evidence, then -- you know, then you'd</p> <p>8 test fire the gun. You'd look at the test, test-to-test</p> <p>9 microscopically. And then you remove one of the tests,</p> <p>10 and then you place the evidence bullet on it, on a</p> <p>11 comparison microscope.</p> <p>12 Q. So you would start -- is it fair to say,</p> <p>13 just to go back for a second, that you can eliminate</p> <p>14 based on class characteristics, but you can't make an</p> <p>15 identification based on the class characteristics alone?</p> <p>16 A. Well, you can make it on the class</p> <p>17 characteristics alone. If the fired evidence is six left</p> <p>18 and gun is six right --</p> <p>19 Q. You can eliminate, right.</p> <p>20 A. Yes. In that particular instance, yes.</p> <p>21 Q. Yes. You can eliminate, but you can't</p> <p>22 identify based on class alone?</p> <p>23 A. Well, you eliminate by virtue of -- if you</p> <p>24 don't have -- you need class and individual</p>

Conducted on October 2, 2020

<p>103</p> <p>1 characteristics to make that call.</p> <p>2 Q. Exactly. So you --</p> <p>3 A. If you don't have the class -- if you don't</p> <p>4 have the class characteristics, that's -- that negates</p> <p>5 the whole -- the whole process. It eliminates the -- you</p> <p>6 know, six right versus six left. You know, that couldn't</p> <p>7 have been fired, you know, in that gun.</p> <p>8 Q. So once you have an agreement between class</p> <p>9 characteristics, that's when you move on to doing your</p> <p>10 test firings --</p> <p>11 A. Yes, ma'am.</p> <p>12 Q. -- and to looking at individual</p> <p>13 characteristics?</p> <p>14 A. Yes, ma'am, that's correct.</p> <p>15 Q. Okay. So you -- in talking about that</p> <p>16 process, you mentioned that the next thing you would do</p> <p>17 if you had an alignment of class characteristics, you</p> <p>18 would take the weapon, and you would fire test shots?</p> <p>19 A. Yes, ma'am.</p> <p>20 Q. What kind of ammunition would you use to</p> <p>21 fire test shots?</p> <p>22 A. I would use the ammunition that was used in</p> <p>23 the case.</p> <p>24 Q. Okay.</p>	<p>105</p> <p>1 use the same ammunition that was used. And if you can't,</p> <p>2 then you use the submitted evidence to test fire.</p> <p>3 Q. Would you use reloadable or nonreloadable</p> <p>4 cartridges for test firings?</p> <p>5 A. I -- I would never use reloadable -- well,</p> <p>6 if it called for it, if I -- if I could determine that it</p> <p>7 was reloadable, then I would shoot reloadable. But if it</p> <p>8 didn't call for it, I -- I would not.</p> <p>9 Reloadable is not -- how would I phrase</p> <p>10 this? It's -- it's not reliable, you know, because it's</p> <p>11 done by individuals that either reload commercially or</p> <p>12 reload as a hobby.</p> <p>13 So you -- you want to reload -- you want --</p> <p>14 you got me on the reload line here -- line of thought.</p> <p>15 You want to use manufactured ammunition that's pristine.</p> <p>16 Q. Pristine. Why do you want it to be pristine</p> <p>17 before you shoot it?</p> <p>18 A. Because you don't want to have -- have any</p> <p>19 incidental marks on it so that the markings that are</p> <p>20 transferred onto that fired evidence are what -- what you</p> <p>21 look at to make an identification.</p> <p>22 Q. So after you fire -- you fire two pristine</p> <p>23 bullets or cartridges -- I'm not sure -- out of the --</p> <p>24 A. The whole -- the whole component is a</p>
<p>104</p> <p>1 A. I mean, not that -- not the ammunition that</p> <p>2 was submitted with the case. Although there have been</p> <p>3 instances where I actually did have to use it, but I</p> <p>4 would go to a -- go to the supply at the laboratory and</p> <p>5 -- because it does -- it makes a difference as to what</p> <p>6 kind of ammunition you used.</p> <p>7 And you try to use the same ammunition that</p> <p>8 was used in that particular case. And then if you don't</p> <p>9 have the ammunition, then you'll use some of the</p> <p>10 ammunition that wasn't fired. You use that ammunition if</p> <p>11 it corresponds to physical configuration and caliber and</p> <p>12 manufacturer.</p> <p>13 Q. You would try and use the same type of</p> <p>14 ammunition that was -- that corresponds to the</p> <p>15 fired-bullet evidence?</p> <p>16 A. Yes.</p> <p>17 Q. Is that because different metals mark in</p> <p>18 different ways?</p> <p>19 A. Yeah. And there's, like, different</p> <p>20 finishes. There's brass, there's copper.</p> <p>21 Q. Mm-hmm.</p> <p>22 A. There's just lead. You know, for -- you</p> <p>23 don't compare lead to -- lead to a jacketed, and you --</p> <p>24 you try as best you can. It's -- it's critical that you</p>	<p>106</p> <p>1 cartridge.</p> <p>2 Q. Yes.</p> <p>3 A. Just a silver bullet and a cartridge case.</p> <p>4 We mark up on the side wall of the cartridge</p> <p>5 case the item number, the case number, and our initials,</p> <p>6 and we also mark up the bullet as well. And then we</p> <p>7 place -- and then we have a specific orientation, is how</p> <p>8 we line up our test fires in that particular firearm so</p> <p>9 that -- so that when we look at the tests, it's going to</p> <p>10 be -- so say, for instance -- save it for -- like, the</p> <p>11 fired bullets.</p> <p>12 If I mark them up insistently, then when I</p> <p>13 place the tests on there, there shouldn't be any</p> <p>14 variation as far as lining them up from, you know, land</p> <p>15 impression to land impression. It might vary ever so</p> <p>16 slightly, but generally not when I -- because they're --</p> <p>17 they're -- I believe they're called index marks.</p> <p>18 Q. Mm-hmm.</p> <p>19 A. So you index them, test fire them, look at</p> <p>20 the test fires, test-to-test, and then remove one of the</p> <p>21 test fires, and place the fired evidence on there -- on</p> <p>22 the scope.</p> <p>23 Q. Why would you look at the test fires,</p> <p>24 test-to-test? You know that those two were fired from</p>

Conducted on October 2, 2020

<p>107</p> <p>1 the same gun, so why do you look at the two tests, 2 comparing those first?</p> <p>3 A. Because they can -- they can vary ever so 4 slightly.</p> <p>5 Q. Okay.</p> <p>6 A. Test -- even test-to-test. And you want to 7 see what that ever so slightly is, you know, but 8 generally they stay the same, but you want to -- you want 9 to -- you want to get, like, the best markings possible. 10 Sometimes those best markings aren't the ones that line 11 up, and you use the one that's not -- you know, not as -- 12 what's the word -- not as -- as pronounced. It might be 13 just a little bit less pronounced, but they do vary 14 test-to-test.</p> <p>15 Q. Are you looking for -- you're looking for 16 markings that vary, but are you also looking for the 17 markings that reproduce well?</p> <p>18 A. Yes. I'm -- I'm keying in on those markings 19 that reproduce well.</p> <p>20 Q. And what's the reason why you key in on the 21 markings that reproduce well test-to-test?</p> <p>22 A. Because those are the markings that I base 23 my identification on.</p> <p>24 Q. Those are the markings that you would expect</p>	<p>109</p> <p>1 Q. I'm sorry. I think I -- I used the word 2 "index" a little bit differently. I said --</p> <p>3 A. Okay.</p> <p>4 Q. But I can use a different word. 5 I said, how important is it to get that 6 baseline of reproducibility before you move onto looking 7 at the fired evidence?</p> <p>8 A. It -- it's very important, and let's just 9 say it's a marking rather than, say -- I mean, we maybe 10 use the term "index" not correctly, but, you know, it's 11 -- it's to line up that unfired cartridge, to line up in 12 a certain position into the firearm so that there's 13 reproducibility, test-to-test, as far as positioning of 14 the --</p> <p>15 Q. Mm-hmm.</p> <p>16 A. -- of that -- of those test shots.</p> <p>17 Q. Okay. So getting off of the lining up with 18 the -- with the index mark, just the idea of how 19 important is it to -- for the examiner to look at those 20 two tests next to each other --</p> <p>21 A. Mm-hmm.</p> <p>22 Q. -- and establish what's reproducing?</p> <p>23 A. Right.</p> <p>24 Q. -- before then, looking at a fired -- fired</p>
<p>108</p> <p>1 to see in the -- in the fired-bullet evidence if it was 2 also fired from that gun?</p> <p>3 A. Yes, ma'am, that's correct.</p> <p>4 Q. So you are looking for reproducible marks in 5 the test-to-test?</p> <p>6 A. Correct.</p> <p>7 Q. So that you can then see when you switch one 8 of the tests out with a fired evidence?</p> <p>9 A. Correct.</p> <p>10 Q. Whether or not that mark is now reproduced 11 on the fired evidence?</p> <p>12 A. Correct.</p> <p>13 Q. How important is it --</p> <p>14 A. Depending -- depending on the condition of 15 the evidence -- of the fired evidence, because it can go 16 into a wall. It can do this and that, you know, or 17 whatever, so --</p> <p>18 Q. How -- how important is it to get that index 19 of reproducibility test-to-test before you move on?</p> <p>20 A. Well, it just makes it a whole lot easier 21 for you as an examiner because the index mark, as you 22 placed it in the gun, if it hasn't moved, it's going to 23 reproduce the same way and transfer onto the fired bullet 24 or the -- or the cartridge case.</p>	<p>110</p> <p>1 evidence?</p> <p>2 A. Correct.</p> <p>3 Q. How important is that first part of looking 4 test-to-test?</p> <p>5 A. Very important, very important. You key in 6 -- you key in on that and look and see how -- how it is 7 that -- you know, how it's similar, those markings are.</p> <p>8 Q. So as -- as an examiner conducting -- doing 9 the -- the primary examination, when you're looking at 10 those two items test-to-test, and you're identifying what 11 reproduces, what doesn't, do you create a worksheet that 12 memorializes that?</p> <p>13 A. I -- I don't know if I understand your 14 question. I mean, if my --</p> <p>15 Q. Do you create a worksheet for the 16 test-to-test comparison?</p> <p>17 A. No. I just indicate on the bottom, the type 18 of ammunition that I used and how I marked it off. And, 19 you know, I -- what was the term you used, 20 "memorialized"?</p> <p>21 Q. Memorialized. That just means, did you -- 22 would you write it down? Like, write down the 23 characteristics that you're seeing that are reproducing 24 test-to-test?</p>

Conducted on October 2, 2020

<p>111</p> <p>1 A. No.</p> <p>2 Q. Would you write that down on a worksheet?</p> <p>3 A. No.</p> <p>4 Q. Okay. Why not?</p> <p>5 A. Because I'm look -- visually looking at the</p> <p>6 evidence. I mean, I -- you know, anything that I write</p> <p>7 down is not what I'd see visually.</p> <p>8 Q. Right. But I mean, in terms of, you know,</p> <p>9 your ability to recall what you had seen or testify about</p> <p>10 it later, would it be helpful?</p> <p>11 A. I mean, somewhere down the line, there was</p> <p>12 -- there was -- there were -- there was protocol that was</p> <p>13 put in there where there were photographs taken -- micro</p> <p>14 -- photomicrographs, but we never used photomicrographs</p> <p>15 for the fact that we do not -- I mean, at that particular</p> <p>16 point in time, we do not base our identification</p> <p>17 photograph-to-photograph. We base the identification on</p> <p>18 what we see visually.</p> <p>19 Q. Mm-hmm.</p> <p>20 A. And not only that, if there's a duces tecum</p> <p>21 that comes in, and you provide the -- that -- those</p> <p>22 micrographs, and the juror looks at it and says, "Well, I</p> <p>23 see areas of agreement here," or "I don't see areas of</p> <p>24 agreement". We don't base our identification on</p>	<p>113</p> <p>1 on the worksheet.</p> <p>2 And as far as the accreditation, that</p> <p>3 started some -- you know, as far as that process, I don't</p> <p>4 -- I don't -- I don't recall.</p> <p>5 Q. But at some point for accreditation, it --</p> <p>6 would -- it was required to have some type of demon --</p> <p>7 like, demonstrative way of writing that down or recording</p> <p>8 that, whatever -- whatever you had viewed through the</p> <p>9 microscope?</p> <p>10 MR. BHAVE: Objection; form.</p> <p>11 MS. TINGSTAD: Mm-hmm. I will repeat --</p> <p>12 or I will rephrase.</p> <p>13 BY MS. TINGSTAD:</p> <p>14 Q. At some point for accreditation, it was</p> <p>15 important to have either a worksheet sketch of what you'd</p> <p>16 seen through the microscope or a photomicrograph, right?</p> <p>17 A. Yeah. At some point, there was, yes.</p> <p>18 Q. And would that worksheet sketch also include</p> <p>19 a worksheet showing what was observed test-to-test?</p> <p>20 A. No.</p> <p>21 Q. It never included test-to-test?</p> <p>22 A. No.</p> <p>23 Q. Why not? Do you know? If you know?</p> <p>24 A. Why -- I know what I'm shooting through the</p>
<p>112</p> <p>1 photographs. We base our identification on what we see</p> <p>2 visually through the comparison scope.</p> <p>3 Q. Do you -- does ISP now use photographs for</p> <p>4 all of their identifications?</p> <p>5 A. I believe they do. I know at the last lab</p> <p>6 that I worked at, but that's strictly done as</p> <p>7 documentation. We don't use it for identification. We</p> <p>8 use it for documentation.</p> <p>9 Q. Documentation.</p> <p>10 A. Right.</p> <p>11 Q. And you would use that then -- that</p> <p>12 documentation then to recall what you had seen, right?</p> <p>13 A. Correct.</p> <p>14 Q. And to perhaps use as a demonstrative in</p> <p>15 court?</p> <p>16 A. Possibly.</p> <p>17 Q. What you're saying is that you never took</p> <p>18 those photomicrographs in the '90s -- in the early '90s?</p> <p>19 A. No.</p> <p>20 Q. That wasn't --</p> <p>21 A. No.</p> <p>22 Q. That wasn't part of the policy?</p> <p>23 A. I think the options were based on laboratory</p> <p>24 accreditation where photomicrographs or an actual sketch</p>	<p>114</p> <p>1 gun, that it's six right, and I base my -- what I see as</p> <p>2 far as reproducibility, it would be duplicating the</p> <p>3 effort. I mean, there -- I -- there was -- I mean, I</p> <p>4 don't want to be -- I don't want to sound argumentative</p> <p>5 or anything like that, but there just wasn't any reason</p> <p>6 for it.</p> <p>7 Q. I'm just trying to understand.</p> <p>8 A. Yeah. Oh, I understand.</p> <p>9 Q. So you're -- you're looking test-to-test.</p> <p>10 What -- about what power of micro -- power of</p> <p>11 magnification did you use back --</p> <p>12 A. The oculars were 5X and 10X, and then the</p> <p>13 objectives were 1.0, 2.0, and 3.0. So the magnification,</p> <p>14 what you do is: You multiply the ocular -- the power of</p> <p>15 the ocular --</p> <p>16 Q. Mm-hmm.</p> <p>17 A. -- times the objective. Like, say -- say,</p> <p>18 for instance, your ocular is 10, and your objective is 30</p> <p>19 -- excuse me. Your objective is 3, then your</p> <p>20 magnification is 30. And what that means is that what</p> <p>21 you're looking at through the scope is 30 times larger</p> <p>22 than its actual size.</p> <p>23 Q. So in that -- in that language right there,</p> <p>24 in the 30 times, of what -- what was the range that you</p>

Conducted on October 2, 2020

<p>115</p> <p>1 would examine evidence?</p> <p>2 A. No more than -- see, and I use the 10 ocular</p> <p>3 because it has, like, a wider distance as opposed to the</p> <p>4 5 -- 5X ocular, and we -- we never went beyond the 3.0</p> <p>5 objective.</p> <p>6 Q. So never beyond 30-times magnification?</p> <p>7 A. Correct.</p> <p>8 (Whereupon, there was a discussion held off</p> <p>9 The record.)</p> <p>10 THE WITNESS: Maybe we can take a break?</p> <p>11 MS. TINGSTAD: Do you want to take a</p> <p>12 break? Sure.</p> <p>13 THE WITNESS: If it's okay with you</p> <p>14 guys.</p> <p>15 MS. TINGSTAD: Maybe a quick bathroom</p> <p>16 break right now, and we can break maybe a little</p> <p>17 bit later for lunch.</p> <p>18 THE WITNESS: Yeah.</p> <p>19 MS. TINGSTAD: Sure.</p> <p>20 THE WITNESS: Okay.</p> <p>21 MS. TINGSTAD: Does five minutes work</p> <p>22 for everyone?</p> <p>23 MR. BHAVE: Yeah.</p> <p>24 MR. HUOTARI: 11:15?</p>	<p>117</p> <p>1 semi-automatic pistol, ejector markings and extractor</p> <p>2 markings.</p> <p>3 Q. So starting with firing pin impressions,</p> <p>4 what would be -- are there class characteristics within</p> <p>5 firing pin impressions?</p> <p>6 A. Yes, there are.</p> <p>7 Q. What would those be?</p> <p>8 A. It'd be, like -- it could be flat. It --</p> <p>9 it's actually round, but then it's flat at the bottom.</p> <p>10 Q. Okay.</p> <p>11 A. You have a spherical, it could be rounded,</p> <p>12 or it could be elliptical, or it could be -- those --</p> <p>13 those are basically the major ones.</p> <p>14 And then -- those are the class</p> <p>15 characteristics, and then there's the -- the firing or</p> <p>16 finishing process -- excuse me -- that'll lay it on --</p> <p>17 individual characteristics onto those firing pins.</p> <p>18 Q. So when the firing pin is being</p> <p>19 manufactured, it's -- it's a piece of metal that's filed</p> <p>20 by another piece of metal that would impart?</p> <p>21 A. I think they're -- it -- it depends. I</p> <p>22 think sometimes it's just punched out.</p> <p>23 Q. Punched out.</p> <p>24 A. And then they'll file them, polish them, and</p>
<p>116</p> <p>1 MS. TINGSTAD: Thanks. Yep. That</p> <p>2 sounds good.</p> <p>3 (Whereupon, the proceedings went off the</p> <p>4 record at 11:09 a.m. through 11:20 a.m.)</p> <p>5 BY MS. TINGSTAD:</p> <p>6 Q. Thank you, Mr. Striupaitis.</p> <p>7 A. You're welcome.</p> <p>8 Q. So before we took the break -- before we</p> <p>9 took the break, you were talking about the first step in</p> <p>10 forensic examination or forensic analysis after</p> <p>11 determining that the class characteristics matched would</p> <p>12 be to the take test fires and compare test-to-test under</p> <p>13 the microscope?</p> <p>14 A. Yes, ma'am.</p> <p>15 Q. And you would be looking for marks that</p> <p>16 reproduced, correct?</p> <p>17 A. Correct.</p> <p>18 Q. So let's -- let's talk about cartridge cases</p> <p>19 and just in the context of looking test-to-test.</p> <p>20 When looking at cartridge cases</p> <p>21 test-to-test, what -- what types of markings are you</p> <p>22 looking at?</p> <p>23 A. Looking -- looking at firing pin impressions</p> <p>24 and looking at retrace markings and looking at if it's a</p>	<p>118</p> <p>1 then the polishing we'll put on the individuality.</p> <p>2 Q. Is there a type of mark that -- that could</p> <p>3 be, let's say, due to defect in the manufacturer's tools</p> <p>4 that could actually not be purposefully put there by the</p> <p>5 manufacturer, like a flat bottom or an elliptical bottom</p> <p>6 to a firing pin impression, but rather something that</p> <p>7 because a tool in the manufacturing process was -- had a</p> <p>8 defect that was imparted to several tools that end up in</p> <p>9 several guns? Have you ever seen anything like that?</p> <p>10 A. Yeah, that can happen.</p> <p>11 Q. What's -- was -- is there a name for that?</p> <p>12 A. That's called subclass characteristics.</p> <p>13 Q. Subclass.</p> <p>14 Can you talk a little bit more about</p> <p>15 subclass characteristics? What would be an example?</p> <p>16 A. Well, you just -- you just indicated, you</p> <p>17 know, you have -- there's a defect made by the</p> <p>18 manufacturer, something like falls in the manufacturing</p> <p>19 process, and would be, like, a run like those. Don't ask</p> <p>20 me how many, hundreds, whatever. And then all of a</p> <p>21 sudden, that mark is gone, you know.</p> <p>22 So you don't base your -- you don't base</p> <p>23 your identification on -- on subclass. You base your</p> <p>24 identification on -- and then to find out about that,</p>

Conducted on October 2, 2020

<p>119</p> <p>1 okay – if I can give one example.</p> <p>2 Q. Please.</p> <p>3 A. There was a gun that was manufactured that</p> <p>4 had the – breech-face was epoxied, so all those</p> <p>5 cartridge cases that came – that were produced by it,</p> <p>6 they all looked pretty much the same. Well, the</p> <p>7 manufacturers went to the forensic people and said, "What</p> <p>8 can I do to render individuality?" And they put a belt</p> <p>9 sander on – in there. And that – that creates a lot of</p> <p>10 great individual characteristics. Now, the –</p> <p>11 Q. So the manufacturer actually purposefully</p> <p>12 created the individual?</p> <p>13 A. They didn't do it purposefully. They didn't</p> <p>14 realize that they were doing it. They went to the</p> <p>15 forensic people, and he helped the forensic people, and</p> <p>16 it's specific to high-point firearms.</p> <p>17 Q. So that epoxy that caused all of the</p> <p>18 cartridge cases to look the same coming out of several</p> <p>19 different guns, that would be called a subclass</p> <p>20 characteristic?</p> <p>21 A. Correct.</p> <p>22 Q. Okay. Is there -- and you can't base your</p> <p>23 idea on subclass. Like you said, just -- you need the</p> <p>24 individual characteristics still, right?</p>	<p>121</p> <p>1 A. Yeah, there is. There is a concentric</p> <p>2 circle, there's cross-hatched, and there's parallel, and</p> <p>3 there's granular, and then there's smooth.</p> <p>4 Q. And those are all different micro --</p> <p>5 microscopic class characteristics?</p> <p>6 A. Correct.</p> <p>7 Q. You also mentioned the ejector and the</p> <p>8 extractor marks.</p> <p>9 A. Mm-hmm.</p> <p>10 Q. When you look at two test fires that were</p> <p>11 fired in pristine condition, you compared the ejector and</p> <p>12 extractor marks to see if they reproduce?</p> <p>13 A. Yes. But sometimes, not all the time</p> <p>14 because if I have pronounced markings in the breech-face</p> <p>15 and the firing impression, do I look at -- always look at</p> <p>16 -- I'll always look at the breech-face -- excuse me, the</p> <p>17 ejector markings because they're right there.</p> <p>18 Q. Mm-hmm.</p> <p>19 A. But the extractor markings, you have to flip</p> <p>20 the cartridge case and cant it and move it around to</p> <p>21 where -- now, if I -- if my -- if my markings were -- are</p> <p>22 not that pronounced in the breech-face of the firing pin,</p> <p>23 then I will go to all the other markings.</p> <p>24 Q. Oh.</p>
<p>120</p> <p>1 A. Correct.</p> <p>2 Q. How can you identify that something is</p> <p>3 subclass? How do you know when you look at a mark that</p> <p>4 it's subclass and not individual?</p> <p>5 A. Well, you basically have to rely on the</p> <p>6 seminars that you would go to and by experience as far as</p> <p>7 what you see. You know, it's -- have there been</p> <p>8 identifications made on subclass? Unfortunately,</p> <p>9 probably, yes, but people didn't realize it until they</p> <p>10 found out through the manufacturing or through seminars</p> <p>11 that those were, in fact, subclass characteristics.</p> <p>12 Q. So you just said unfortunately, probably</p> <p>13 identifications have been made erroneously based on</p> <p>14 subclass and not on individual?</p> <p>15 A. There is a possibility, yes.</p> <p>16 Q. Have you heard of that happening?</p> <p>17 A. Maybe on -- maybe on that one occasion with</p> <p>18 the high point that I indicated, but then he corrected</p> <p>19 that by placing the little sander in there and adding</p> <p>20 individual characteristics.</p> <p>21 Q. Would looking at -- strike that.</p> <p>22 And then let's talk about the breech-face</p> <p>23 marks. What kind of -- are there any class</p> <p>24 characteristics involved in breech-face marks?</p>	<p>122</p> <p>1 A. Just to -- to base my -- to make a</p> <p>2 determination.</p> <p>3 Q. So if you discussed having the importance of</p> <p>4 looking test-to-test to see what -- what reproduces and</p> <p>5 these various microscopic class and individual</p> <p>6 characteristics, would you -- if you had two questioned</p> <p>7 cartridge cases, would you also compare the questioned to</p> <p>8 the questioned to see what reproduces?</p> <p>9 A. I -- I can, and I do -- and I have, yes.</p> <p>10 Q. Is that part of the protocol, the -- that's</p> <p>11 required by ISP?</p> <p>12 A. You know, I -- I -- I don't know if it's</p> <p>13 written in there specifically, but what's crucial is that</p> <p>14 -- is that -- see, what happens is you'll get different</p> <p>15 kinds of ammunition, and the ammunition that you fire</p> <p>16 might not necessarily correspond to the ammunition that</p> <p>17 was fired in the case. So there's variations as far as</p> <p>18 the -- the metal and such.</p> <p>19 So I'll -- I'll take a look, but then I base</p> <p>20 -- I need to see it -- the test to the fired evidence. I</p> <p>21 won't just look at it, you know, evidence-to-evidence.</p> <p>22 If I do look at it evidence-to-evidence and there's --</p> <p>23 there's pronounced marks, then I could say that they were</p> <p>24 fired by from the same gun, but I won't say they're fired</p>

Conducted on October 2, 2020

<p>123</p> <p>1 from the gun -- from the gun in question until I can 2 prove that with the tests that I fired. 3 Q. Mm-hmm. 4 And if you were to see marks that reproduce 5 well questioned-to-questioned, you would expect to see 6 those reproduced also in the tests? 7 A. That's correct. 8 Q. Do you look at ejector marks in the 9 questioned cartridge cases as well? 10 A. Yes. Again, if -- if the markings -- if the 11 markings are pronounced in the breech-face and the firing 12 impression, and then the ejector markings are right 13 there, right in the face of the -- of the cartridge case, 14 then, yeah, I can -- and as far as orientation or 15 whatever, yes. Whereas the extractor markings where, you 16 know, you have to remove it and cant it and so on and so 17 forth. 18 Q. But you would consider the ejector and 19 extractor marks -- potentially consider those in making 20 an identification or an elimination in coming to a 21 conclusion? 22 A. Yes, that's correct. 23 Q. So we've talked about various types of marks 24 on cartridge cases, and the process of going test-to-test</p>	<p>125</p> <p>1 personally doing that. 2 But, you know, I always look at -- at 3 test-to-fired evidence when I'm called upon to make a 4 verification. 5 Q. So is it fair to say that as a verifier 6 looking test-to-questioned only, you're missed -- the 7 verifier would miss out on that baseline of 8 reproducibility that would be observed by looking 9 test-to-test? 10 A. No. The verifier doesn't miss out on 11 anything. The verifier is looking at agreement and -- 12 and there is -- when there's agreement, there's 13 agreement. 14 There's -- I don't know of any laboratory 15 that has individuals do that, you know, look at it. I 16 mean, the primary certainly does, and if needed, the 17 verifier will be, but as far as the verifier, I've never 18 -- I have never done that. 19 Q. Okay. Thank you. 20 A. Mm-hmm. 21 Q. Okay. You talked a little bit about what 22 you would do when you received evidence and the chain of 23 custody, and how careful you were to document everything. 24 I just want to ask a few questions about</p>
<p>124</p> <p>1 first, sometimes doing questioned-to-questioned, but not 2 always, and then looking test-to-questioned to see if 3 there's an identification. 4 A. Right. 5 Q. We also talked a little bit about subclass, 6 and that possibility that a less experienced examiner 7 could confuse subclass for individual characteristics. 8 I want to ask you a little bit more about 9 the verification process. Again, you mentioned that the 10 way that it would work in practice would be the principal 11 examiner would be looking at evidence, they would say, "I 12 found something interesting," and that meant, "Come over 13 and see, I found some -- some alignment, I found an 14 identification, I want you to see it." 15 Did they -- did the principal examiner do 16 that when they were looking test-to-test? 17 A. No. 18 Q. Why not? You've -- just, I'm curious. I'm 19 not -- I'm just wondering. 20 A. No, no. That's all right. I understand. 21 Because it's done -- it's done on a 22 examiner's screening level, and that's not -- I mean, has 23 -- has a verifier gone and looked at test-to-test and 24 then gone to the evidence? Possibly. I don't recall</p>	<p>126</p> <p>1 evidence -- evidence storage and handling in the 2 laboratory. 3 A. Mm-hmm. 4 Q. Do you have experience with how to store and 5 handle evidence? 6 A. I do. 7 Q. And are there policies and protocols at ISP 8 about how to safely handle evidence? 9 A. There is protocols as to safely handle it, 10 how to mark it, and how to store it, and it's placed in a 11 secured area of limited access. 12 Q. And why -- why are those policies important? 13 Why is it important to -- 14 A. So you can maintain chain of custody. 15 Q. And what about the way that bullets -- the 16 way that evidence is -- is stored in terms of maintaining 17 the integrity of the evidence itself? 18 A. To the best of my recollection, it's 19 returned to -- it's returned into the same packaging -- 20 put into the same packaging that was submitted in and 21 then sealed up and returned. 22 Q. Would two -- would two pieces of fired 23 evidence, for example, ever be stored in the same 24 canister?</p>

Conducted on October 2, 2020

<p style="text-align: right;">127</p> <p>1 A. Possibly, yeah. But I mean, if the -- if 2 they were submitted individually, then they would be 3 returned individually. 4 Q. Mm-hmm. 5 Is there -- are you aware of any -- any 6 instances of -- of examiners damaging evidence or 7 mishandling it such that it would impart marks to it -- 8 A. No. 9 Q. -- or -- or remove marks? 10 A. No. 11 Q. What about the storage process? Have you 12 ever heard of evidence -- fired-bullet evidence being 13 stored in a way that would cause it to degrade or change 14 over time? 15 A. No. If I can add to that, just -- 16 Q. Sure. 17 A. If it -- if it's after it leaves the 18 laboratory, and if it's stored, you know, in, like, 19 different conditions or something like that, but when 20 it's at the laboratory, it's secured and limited access 21 in a dry place, and so -- 22 Q. Is the evidence generally stored in airtight 23 or watertight containers? 24 A. No. It's -- again, it's -- as I indicated</p>	<p style="text-align: right;">129</p> <p>1 exactness of how the two items that are identified have 2 to compare? 3 A. It's -- it's -- there's agreement in class 4 and individual characteristics. It's -- it's not 5 quantitative. You know, it -- it's what you see, and 6 it's quality, and it's the contour of -- of the land and 7 groove impressions and all the other forms of agreement 8 that are present there microscopically. 9 Q. What about an inconclusive? 10 A. An inconclusive will have similar class 11 characteristics, but insufficient markings to make it -- 12 in order to call it a positive identification. 13 Q. And what about an exclusion? 14 A. An exclusion would be -- in the 15 example-to-fired evidence is five right and they both -- 16 the -- is five right and the gun submitted is six left. 17 There's no way in God's green Earth that that bullet was 18 fired from that -- from that gun. 19 Q. Would you -- is it possible to have an 20 elimination where class characteristics do line up, but 21 there is not sufficient individual characteristics that 22 -- that line up? 23 A. Yeah. That would be -- that would be an 24 inconclusive, but then it has to do with -- what happened</p>
<p style="text-align: right;">128</p> <p>1 earlier, whatever it came in is what we returned it in. 2 Q. Are film canisters, does that sound familiar 3 in terms of a way to store -- store fired-bullet 4 evidence? 5 A. Yeah. The submitting agencies have used 6 those and placed them in there. You know, what we might 7 do, like, an additional -- wrap it in paper or something 8 and then put it in -- back into the original packaging. 9 But other than that, you know, it's returned in the same 10 packaging it was submitted in. 11 Q. I just want to cover -- we -- we chatted a 12 while ago about the kinds of conclusions that examiners 13 can come to. 14 A. Mm-hmm. 15 Q. How would you define the standard for 16 identification at ISP? 17 A. Well, there's -- an identification is where 18 there is an agreement in reproducibility of individual 19 similarity and individual and class characteristics. 20 Q. Does it have to be 100 percent, perfectly 21 exact in terms of the similar -- like, an exact replica? 22 MR. BHAVE: Objection; form. 23 BY MS. TINGSTAD: 24 Q. What's the standard in terms of the</p>	<p style="text-align: right;">130</p> <p>1 to the gun from the commission of the crime to when it's 2 submitted. I don't know if I -- you know, did something 3 happen to that gun between the commission of the crime 4 and it was submitted to the laboratory, or did something 5 happen to it afterwards? So you can have class 6 characteristics but not individual characteristics, and 7 that would be -- that would be an inconclusive. 8 Q. Is it possible that -- are there -- are 9 there -- let's -- let's -- let me put it this way: If 10 there are two separate guns of the same class, let's say, 11 you know, the same exact make and model, different serial 12 numbers, different guns, the fired bullet evidence -- the 13 fired bullets that come out of those two separate guns 14 would always have the same class characteristics, 15 correct? 16 A. Correct, correct. 17 Q. But would you -- would you be able to 18 eliminate fired-bullet evidence coming from two separate 19 guns based, not on the class characteristics, but based 20 on quantity of differences in individual characteristics? 21 A. Again, depending on what the gun has been 22 through. But, yes, you could eliminate it if you knew 23 the history of the gun. That could also be an exclusion. 24 Q. What kinds of things could happen to guns --</p>

Conducted on October 2, 2020

<p>131</p> <p>1 A. An inconclusive.</p> <p>2 Q. An inconclusive.</p> <p>3 A. I mean, it's -- there's microscopic</p> <p>4 irregularities that are imparted on the gun during its</p> <p>5 manufacturing process --</p> <p>6 Q. Mm-hmm.</p> <p>7 A. -- during the use and abuse and wear of that</p> <p>8 gun as well.</p> <p>9 Q. Would -- strike that.</p> <p>10 Okay. Is the standard, though -- the</p> <p>11 standard for an identification or an elimination or an --</p> <p>12 the standard is a subjective one in the end, correct?</p> <p>13 A. Yes.</p> <p>14 Q. It's based on the training and experience of</p> <p>15 the -- of the firearm examiner who is making that</p> <p>16 determination?</p> <p>17 A. It's based on -- yes.</p> <p>18 Q. Do you recall testifying in the '90s that a</p> <p>19 gun was a match to the exclusion of all other guns in the</p> <p>20 world? Do you recall ever testifying to that?</p> <p>21 A. Yeah. That was terminology that we used</p> <p>22 that, and in turn, it has been modified, eliminated,</p> <p>23 because by saying "to the exclusion of all others", the</p> <p>24 presumption is that you fired every other -- you fired</p>	<p>133</p> <p>1 know you can determine that the fired bullets were fired</p> <p>2 from the same gun.</p> <p>3 Q. Mm-hmm.</p> <p>4 A. The cartridge cases were fired from the same</p> <p>5 gun, but since you don't have a -- in the case of</p> <p>6 semi-automatic pistols, but you don't have the gun, so</p> <p>7 you can't say absent -- that you're absolutely certain</p> <p>8 that those -- the bullet in the cartridge case were a one</p> <p>9 time -- one ammunition component, you know, because you</p> <p>10 don't have the gun.</p> <p>11 Q. Mm-hmm.</p> <p>12 A. So you say the cartridge cases were fired</p> <p>13 from the same gun, and the bullets were fired from the</p> <p>14 same gun.</p> <p>15 Q. Were you ever asked to go further and give</p> <p>16 your opinion as to what type of weapon fired the gun?</p> <p>17 A. Yes. You measure the -- the land and groove</p> <p>18 impressions, and then you are able to discern the types</p> <p>19 of guns that would have fired -- the manufacturer of the</p> <p>20 guns that could have fired that evidence.</p> <p>21 Q. So that would be sort of trying to narrow --</p> <p>22 narrow the types of guns that could have -- narrow the</p> <p>23 universe of the types of guns that could have fired?</p> <p>24 A. Yes, yes, that's correct.</p>
<p>132</p> <p>1 all guns in the world or all, you know -- and that is not</p> <p>2 -- not, in fact, the case, you know. Based upon what was</p> <p>3 submitted to us and -- and so on.</p> <p>4 Q. All right. And just for the sake of time,</p> <p>5 the -- the discussion about your testimony about the</p> <p>6 reproducibility and the process of looking test-to-test,</p> <p>7 and then test-to-questioned, would that also apply to</p> <p>8 your analysis of fired bullets, as well as cartridge</p> <p>9 cases?</p> <p>10 A. Yes.</p> <p>11 Q. Okay.</p> <p>12 A. Yes.</p> <p>13 Q. We don't have to go through all that then</p> <p>14 with the fired bullets.</p> <p>15 Have you ever been asked as a firearms</p> <p>16 examiner to conduct an analysis of -- to evidence of --</p> <p>17 of evidence that's been picked up where there isn't a</p> <p>18 weapon that -- a suspected weapon to look at --</p> <p>19 A. Yes.</p> <p>20 Q. -- to look at evidence?</p> <p>21 A. Yes, I have.</p> <p>22 Q. And can you talk about that process?</p> <p>23 A. Well, there's individuality that's on -- on</p> <p>24 that evidence, but since there is no gun in question, you</p>	<p>134</p> <p>1 Q. And these kinds of comparisons that you're</p> <p>2 referring to, they would've been done under a microscope,</p> <p>3 correct?</p> <p>4 A. That would be done under microscope, and you</p> <p>5 measure -- measure the measurements of the land -- land</p> <p>6 and groove impressions.</p> <p>7 Q. Would you then generate notes -- notes or</p> <p>8 worksheets based on that -- that microscopic examination</p> <p>9 and --</p> <p>10 A. Yeah, I would make notes. There's a --</p> <p>11 there's actually a database that's compiled by the FBI.</p> <p>12 It's called a GRC, General Rifling Characteristics</p> <p>13 Database. And you -- you put in the dimensions of the</p> <p>14 land and groove impressions, and it gives you a list of</p> <p>15 possible weapons that could have fired that fired bullet;</p> <p>16 however, when you write the report, you say that the</p> <p>17 possible weapons that could've fired, say, a bullet --</p> <p>18 that's five lands and grooves, right-hand twist would</p> <p>19 include Smith and Wesson, Taurus, and Rossi -- I'm just</p> <p>20 naming them as examples.</p> <p>21 Q. Right.</p> <p>22 A. But that -- not that it's necessarily true</p> <p>23 but -- and other firearms with similar rifling</p> <p>24 characteristics.</p>

Conducted on October 2, 2020

<p style="text-align: right;">135</p> <p>1 And you qualify that for the fact that there 2 might be guns out there that are not in that database 3 that the FBI compiled. 4 Q. And that -- that -- there's actually a 5 protocol as to what that report -- what the language of a 6 report like that would say? 7 A. Yes. 8 Q. Do you recall if that -- do you recall if 9 that -- when that wording went into place or when that 10 wording was instituted for these kinds of investigative 11 examinations? 12 A. You know, I don't know. I've always used 13 it, but as far as when it was instituted specifically, I 14 really couldn't tell you. 15 Q. Would you have used it, like, even back in 16 -- in the -- when you were a forensic one examiner back 17 in 1985? 18 A. I think there's -- I think there's a 19 distinct possibility, yes. It qualified because that 20 database is not all inclusive. 21 Q. In your experience, have you ever conducted 22 one of these investigative -- I'm going to call it an 23 investigative examination, where you're just looking at 24 evidence, but there's no gun yet to compare it to; is</p>	<p style="text-align: right;">137</p> <p>1 weapon, that's a suspected weapon, have you ever sort of 2 then done the second part of that, that full 3 investigation or the full comparison with the suspected 4 weapon of the evidence that you already preliminarily 5 looked at? I'm just asking if that's ever happened in 6 your career? 7 A. Personally, I have not, no. 8 Q. You have not, okay. 9 A. Personally have not, no. 10 Q. In your experience, have you ever seen -- 11 have you ever seen or -- evidence that has been examined 12 preliminarily by one lab, then be moved to a different 13 lab for full examination? Have you ever seen evidence 14 being moved from one lab to another lab? 15 A. I -- I've heard about it, but I've never 16 seen it. 17 Q. And what -- what have you heard about it? 18 A. Well, I -- individuals that I talked to at 19 seminars, you know. They'll say they'll give a 20 preliminary and then write a report later. You know, 21 it's just a courtesy to the -- to the -- to the -- it's 22 an investigative lead, excuse me, to the agency involved. 23 Q. Okay. So once the investigative lead is 24 done, and let's say the agency recovers a weapon that</p>
<p style="text-align: right;">136</p> <p>1 that fair? 2 A. Kind of like a preliminary examination or 3 something? 4 Q. Sure. We can call it a preliminary 5 examination just to make sure we are all clear. 6 So in that kind of preliminary examination 7 that you just described, did you -- have you ever 8 conducted one of those and then the firearm would be 9 submitted to the lab -- like, later a firearm would be 10 submitted, and then you would go ahead and proceed with 11 the full forensic examination? 12 A. I -- I -- you know, personally, I don't 13 recall having to do that. I've heard of individuals 14 doing that, not with the State Police, but with other 15 agencies, and it's something that's done informally to 16 provide an investigative lead to the submitting agency, 17 but it's not -- it's not written -- well, it's not -- 18 it's not bonafide until it's in the report. 19 Q. Okay. Until the preliminary examination 20 results are in the report, is what you are saying? 21 A. Correct. 22 Q. So once -- once an examiner has done a 23 preliminary examination like that, and then maybe through 24 -- into further investigation, the police recover a</p>	<p style="text-align: right;">138</p> <p>1 they think is the weapon that fired the questioned 2 evidence, at that point, have -- have you ever heard of 3 -- of an investigator who did the preliminary, then for 4 whatever reason sending that evidence to another lab in 5 another city to be reviewed or examined? 6 A. Yeah. I don't know what you -- you know, 7 preliminarily, if -- if -- you know, I indicated the GRC 8 problem with the FBI. You know, preliminarily, I would 9 say, there's these three guns or something else that's of 10 similar rifling characteristics that's not included in 11 the database. 12 So, you know, if that provide -- if that -- 13 you know, of those three that I mentioned, there's one 14 that's out there that they submit, that's -- then that's 15 -- that's the way it -- then that's -- that's what it is. 16 But I don't understand your question. 17 Q. Okay. I -- I get it that you don't 18 understand. 19 Did -- have you ever sent cases that you've 20 already looked at -- have you ever sent evidence that 21 you've already looked at to another lab that there was -- 22 evidence that's already in your possession, have you ever 23 sent it to another lab? 24 A. No, no.</p>

Conducted on October 2, 2020

<p>139</p> <p>1 Q. Have you ever heard of that happening 2 before?</p> <p>3 A. No, no, not -- none that I recall, no.</p> <p>4 Q. When you were working in Broadview, do you 5 recall ever receiving evidence from Rockford or the 6 Rockford lab for your review?</p> <p>7 A. I certainly could've worked cases from them, 8 but I don't -- you know, I don't recall specifically what 9 they were because if they had a backlog, you know, cases 10 from Fairview Heights and Rockford and the like.</p> <p>11 Q. And you would be working cases from Rockford 12 because the examiner in Rockford had a backlog?</p> <p>13 A. Correct.</p> <p>14 Q. Can you think of any other reason why you 15 would be working a Rockford case?</p> <p>16 A. No.</p> <p>17 Q. Okay.</p> <p>18 A. I mean, a backlog or they were on vacation, 19 but those would be the only reasons.</p> <p>20 Q. Mr. Striupaitis, what's your experience with 21 IBIS?</p> <p>22 A. I've made entries. I was trained in it, and 23 I made entries with IBIS, so I have some experience with 24 it, more so with cartridge cases than with fired -- with</p>	<p>141</p> <p>1 quite a number. In the hundreds, let's just say.</p> <p>2 Q. Have you ever gotten a hit of a potential 3 match with something you have entered into IBIS?</p> <p>4 A. Yeah. On occasion.</p> <p>5 Q. And then after you get the hit, what -- what 6 happens next?</p> <p>7 A. After the hit, then you -- you -- you 8 recover the actual evidence, and then you look at the 9 evidence microscopically, and then you base your 10 identification on the actual evidence.</p> <p>11 Q. Did you ever identify anything?</p> <p>12 A. IBIS -- IBIS is used as a search tool.</p> <p>13 Q. As a search tool.</p> <p>14 A. Mm-hmm.</p> <p>15 Q. Did you ever make an identification based on 16 a potential hit that IBIS identified?</p> <p>17 A. I -- you -- it sounds like you're repeating 18 yourself.</p> <p>19 Q. I'm just asking if you -- if you've ever 20 actually made an identification under a microscope of 21 evidence that's been linked by IBIS?</p> <p>22 A. Under microscope, yes. Of something that -- 23 of something that IBIS said was a hit, yes, but only made 24 the identification --</p>
<p>140</p> <p>1 fired bullets.</p> <p>2 Q. Just for the record, can you tell us what 3 IBIS is?</p> <p>4 A. It's the identification ballistics -- 5 Integrated Ballistics Identification System, and it's a 6 video imagery database that enables you to take images of 7 fired evidence and put it into a database, and then, in 8 turn, the database will -- when you get the suspect 9 cartridge case -- because fired bullets have been pretty 10 much eliminated from what I understand and only cartridge 11 cases are entered.</p> <p>12 Q. Okay.</p> <p>13 A. So you receive a cartridge case and place it 14 into the system. It'll come back with a list of -- just 15 like that GRC, a list of possibles only with images, as 16 far as, you know, correspondent -- correspondent 17 cartridge cases that could've been fired with the one 18 that you submitted, the one in question.</p> <p>19 Q. About how many times have you entered 20 evidence into IBIS?</p> <p>21 A. Oh, God, I don't know. I didn't -- I didn't 22 do it with the State Police. I worked with another lab, 23 and when I showed up at the lab, there was a 300-case 24 backlog, so I don't know. It was -- it was quite --</p>	<p>142</p> <p>1 Q. And under the --</p> <p>2 A. -- only made the identification after I 3 reviewed the -- under the microscope, yes.</p> <p>4 Q. And IBIS, it gives a list of low-confidence 5 matches and a list of high-confidence matches, correct?</p> <p>6 A. Yeah. I've -- there's -- from what I 7 recall, it's been sometime now because I left that lab in 8 2000 and -- when did I leave, '11 or '12.</p> <p>9 So, yeah, it gives you, like -- there's, 10 like -- just, like, a way -- you know, a high priority, 11 low priority, to that effect, and then you look at those, 12 and you make it -- you go -- you go from there. And then 13 you -- when you think there's a possible candidate, you 14 get the actual evidence and look at it under -- under a 15 -- you look at it microscopically.</p> <p>16 Q. If two cartridge cases were fired from the 17 same gun --</p> <p>18 A. Mm-hmm.</p> <p>19 Q. -- and they were both entered into IBIS, 20 would you expect that they would reflect a high or a 21 low-confidence result in IBIS?</p> <p>22 A. I would expect that they would have a high 23 -- high result if, in fact, the cartridge cases were of 24 the same manufacturer. If they were a different</p>

Conducted on October 2, 2020

<p style="text-align: right;">143</p> <p>1 manufacturer, you might not get a high-confidence score.</p> <p>2 Q. You may get a low confidence?</p> <p>3 What if they were in the same --</p> <p>4 A. Yeah, a low confidence.</p> <p>5 Q. Okay. What if they were in the same -- made</p> <p>6 of the same metal, the same -- the same finish or the</p> <p>7 same metal? Would you expect that?</p> <p>8 A. Yes. I can't -- I can't reiterate enough,</p> <p>9 it has to be the same manufacturer, the same everything.</p> <p>10 Q. Okay.</p> <p>11 A. Yeah.</p> <p>12 Q. You mentioned in the first part of your</p> <p>13 deposition that you are past president of AOFTE?</p> <p>14 A. Yes, ma'am.</p> <p>15 Q. And you are a fellow member of the American</p> <p>16 Academy of Forensic Sciences?</p> <p>17 A. Correct.</p> <p>18 Q. And an emeritus life active member of the</p> <p>19 International Association For Identification?</p> <p>20 A. That's correct, emeritus.</p> <p>21 Q. Emeritus.</p> <p>22 A. Yes.</p> <p>23 Q. In your professional career and</p> <p>24 associations, have you had a chance to get to know a</p>	<p style="text-align: right;">145</p> <p>1 reputation.</p> <p>2 Q. What do you mean by a different method?</p> <p>3 What do you understand to be the differences?</p> <p>4 A. I'm sorry?</p> <p>5 Q. I'm just asking: What do you understand to</p> <p>6 be the different method? Is it the -- the AOFTE theory</p> <p>7 of identification?</p> <p>8 A. He uses -- there is -- there is -- he uses</p> <p>9 the consecutive matching stria method to where he counts</p> <p>10 lines of land impressions, and that's used by a small</p> <p>11 group of individuals in northern California. And</p> <p>12 everybody else uses the traditional method that I use and</p> <p>13 others use.</p> <p>14 Q. And that counting stria, that would imply to</p> <p>15 bullets, correct?</p> <p>16 A. Correct.</p> <p>17 Q. When it comes to cartridge cases, do you --</p> <p>18 are you -- are you both -- would you say -- well --</p> <p>19 A. Of the same wavelength? Yeah.</p> <p>20 Q. Same wavelength?</p> <p>21 A. Yeah.</p> <p>22 Q. Okay. Do you know an examiner by the name</p> <p>23 of Chris Coleman?</p> <p>24 A. No, I do not.</p>
<p style="text-align: right;">144</p> <p>1 fellow examiner by the name of John Murdock?</p> <p>2 A. Yes, I have.</p> <p>3 Q. And what is your --</p> <p>4 A. I know who John Murdock is.</p> <p>5 Q. And how do you know who he is?</p> <p>6 A. I know him as an examiner that works with --</p> <p>7 out in California, and that he worked with a certain</p> <p>8 county, and he actually worked at the ATF lab for a</p> <p>9 while, that he was on some committees of AOFTE.</p> <p>10 Q. Have you ever met him personally?</p> <p>11 A. I'm sorry. You -- seems like you're frozen.</p> <p>12 Q. I know. You are freezing, too, a little</p> <p>13 bit.</p> <p>14 Have you ever met him personally?</p> <p>15 A. Yeah, sure. John was -- I -- I taught at --</p> <p>16 yes, I have. John -- I taught a training module with</p> <p>17 ATF, and John would be there in the training capacity,</p> <p>18 and I would meet him there, and I would meet him at AOFTE</p> <p>19 seminars as well.</p> <p>20 Q. In your -- from your knowledge, does he have</p> <p>21 a good reputation in the industry?</p> <p>22 A. Yes, from what I understand. He uses a</p> <p>23 different method to make his identifications, but other</p> <p>24 than that, from what I understand, he does have a good</p>	<p style="text-align: right;">146</p> <p>1 Q. Mr. Striupaitis, did you prepare for the</p> <p>2 deposition today? You keep freezing. I don't know why.</p> <p>3 A. I don't know what you mean by "prepare" for</p> <p>4 today. Did I -- did I, like --</p> <p>5 Q. Did you review documents?</p> <p>6 A. Other than what Sunil sent me, that was</p> <p>7 basically it.</p> <p>8 Q. Do you -- what documents did you review?</p> <p>9 A. Formal, like, --</p> <p>10 Q. Formal -- I'm having a hard time</p> <p>11 understanding.</p> <p>12 You reviewed formal court things, you said?</p> <p>13 A. Yeah. Formal court documentation that, you</p> <p>14 know, had whoever was the plaintiff and stuff like that,</p> <p>15 and other objectives or whatever in there, and the --</p> <p>16 just a few pages.</p> <p>17 Q. Okay. And don't tell me anything you -- you</p> <p>18 discussed with your lawyer, but did you discuss -- did</p> <p>19 you just discuss with your lawyer this deposition today?</p> <p>20 Did you talk -- talk with him about it?</p> <p>21 A. Well, yeah. We -- you know, we discussed --</p> <p>22 I mean, I taught courtroom performance in -- with the</p> <p>23 State Police, and, you know, usually it's -- we're</p> <p>24 experts in criminal trials and -- and we don't -- we</p>

Conducted on October 2, 2020

<p style="text-align: right;">147</p> <p>1 don't do that many depositions, but I've done -- I've 2 done a few depositions in the past, so I'm -- I'm 3 familiar with them. 4 Q. What -- when have you been deposed in the 5 past? 6 A. There was a case that I was hired by an 7 individual -- by a lawyer in California who represented 8 Beretta. 9 Q. Okay. 10 A. And -- and the lawyers on the other side 11 were the Cochran Group. 12 Q. Okay. 13 A. They wanted to know whether or not the 14 Beretta made these markings on cartridge cases. 15 Q. So you were an expert in that case? 16 A. I was -- it was a private case, yes. 17 Q. And -- and how many other depositions have 18 you given? 19 A. I think there was one other with the State 20 Police, but I don't recall when or the particulars. 21 Q. Was that as an expert? 22 A. Yes. 23 Q. Have you ever been a defendant in a case? 24 A. What do you -- did I -- what do you mean --</p>	<p style="text-align: right;">149</p> <p>1 firearms examiner. 2 Q. And what about Beth Patty, do you know her? 3 A. Yeah, I know Patty. She was one of my -- 4 one of my trainees -- strike that. 5 She worked at the lab. Danny actually 6 trained her. I have worked with her. She was in 7 Chicago. Then she transferred to Springfield. 8 Q. And when you say "Danny", you mean 9 Dan Gunnell trained Patty? 10 A. Gunnell. We were like, you know, there was 11 Danny, you know, that -- I mean, call me -- but -- but it 12 was Danny, yeah. 13 Q. So it's fair to say that you were pretty 14 close? 15 A. Well, it's fair to say that he's past 16 president of AOFTE, and I'm past president of AOFTE, so 17 there was -- there's that connection. 18 Q. And you worked together in the same lab, 19 too, right? 20 A. Correct. Correct. 21 Q. And you also worked in the same lab with 22 Beth Patty and Dan Gunnell? 23 A. Daniel -- yeah. Daniel was the training 24 coordinator. She worked the cases, and I taught at the</p>
<p style="text-align: right;">148</p> <p>1 did I -- 2 Q. Like, have you ever been sued before? 3 A. No. 4 Q. Have you ever been sued? 5 A. No. 6 Q. Okay. 7 A. No, I have not. 8 Q. Okay. Have -- did you talk with anyone 9 other than your lawyer about this case? 10 A. No. 11 Q. Did you talk with anyone about your 12 deposition today other than your lawyer? 13 A. Other than saying I was going into Chicago 14 for a deposition, no. 15 Q. Do you know some of the other defendants in 16 this case? 17 A. Dan -- Dan Gunnell. 18 Q. Yeah. 19 A. And you named some of the others. Jack 20 Welty. 21 Q. You know him? 22 A. Yeah, I know him. And then -- because he 23 was -- he was lead director -- assistant lead director in 24 Juliette, and then he went to Rockford, and he's a former</p>	<p style="text-align: right;">150</p> <p>1 University of Illinois, Chicago. 2 Q. Have you ever worked in the same lab with 3 Jack Welty? 4 A. When he was in Juliette, but he was in an 5 administrative capacity. I believe he was assistant lab 6 director, and I was a trainee. 7 Q. Have you talked with any of those other 8 defendants about this case? 9 A. No. 10 Q. None at all? 11 A. Well, we had a -- we had a conference call 12 with -- it was Dan and Jack and myself, and we talked 13 about -- 14 MR. BHAVE: I'm going -- I'm going to 15 instruct Mr. Striupaitis not to disclose the 16 conversations of this meeting because that is 17 covered by the attorney/client privilege. All 18 the defendants have a common-interest defense. 19 MS. TINGSTAD: Mr. -- Mr. Sunil, were 20 you present on that call? 21 MR. BHAVE: I was. 22 BY MS. TINGSTAD: 23 Q. Did you ever talk with the other defendants 24 when your attorney wasn't present? Like, have a</p>

Conducted on October 2, 2020

<p>151</p> <p>1 conference call without your attorney?</p> <p>2 A. You're directing that to me?</p> <p>3 Q. Yes.</p> <p>4 A. No.</p> <p>5 Q. Outside of having a conference call, have</p> <p>6 you -- have you spoken with any of the other defendants</p> <p>7 in the last year or so?</p> <p>8 A. No.</p> <p>9 MS. TINGSTAD: Mr. Striupaitis, it's</p> <p>10 12:15 your time. Would you -- do you want to</p> <p>11 break for lunch, or do you want to just</p> <p>12 continue?</p> <p>13 THE WITNESS: No. Let's just keep on</p> <p>14 going.</p> <p>15 MS. TINGSTAD: Okay.</p> <p>16 BY MS. TINGSTAD:</p> <p>17 Q. Do you remember Patrick's Pursley's --</p> <p>18 Patrick Pursley's case from 1993?</p> <p>19 A. No.</p> <p>20 Q. In 1993, you were no longer assistant lab</p> <p>21 director in Broadview branch, correct?</p> <p>22 A. Correct. I was working cases then.</p> <p>23 Q. You were -- you were working as a forensics</p> <p>24 examiner in the Broadview branch lab?</p>	<p>153</p> <p>1 Q. Why did you step -- why did you decide to</p> <p>2 move from assistant lab director back to forensic</p> <p>3 examiner?</p> <p>4 A. Well, because our -- our system became</p> <p>5 unionized, and my subordinates were making more money</p> <p>6 than I was, and they were -- had worked less time.</p> <p>7 So the Bureau was gracious enough to let me</p> <p>8 back on the bench and recoup a little bit. But then they</p> <p>9 -- then I started with the administrative duties, then I</p> <p>10 got back to a nonunion position, let's just say.</p> <p>11 So, you know, it's -- it's a State Police</p> <p>12 organization, and they ask you to do certain things, but</p> <p>13 it bugged me that, you know, people with less time than</p> <p>14 me were making more money, and they were gracious enough,</p> <p>15 like I said, to allow me to go back on the bench and</p> <p>16 recoup.</p> <p>17 But then once I get back into the</p> <p>18 administrative thing, it'd be the same old story again.</p> <p>19 You know, it's -- it's just the nature of -- of that kind</p> <p>20 of thing.</p> <p>21 Q. So you had -- you had been a forensic</p> <p>22 examiner doing your own independent cases from 1982 to</p> <p>23 1985 for about three years. Then for seven years, you</p> <p>24 were assistant lab director doing more administrative</p>
<p>152</p> <p>1 A. Yeah. And also was a coordinator for</p> <p>2 another imaging program before IBIS --</p> <p>3 Q. The precursor to IBIS?</p> <p>4 A. -- and I was training people.</p> <p>5 Excuse me?</p> <p>6 Q. I said, the precursor to IBIS?</p> <p>7 A. There were two systems. One was done by --</p> <p>8 there were two systems. One was done by the ATF, and the</p> <p>9 other by the FBI.</p> <p>10</p> <p>11 (Whereupon, there was a discussion held off</p> <p>12 the record.)</p> <p>13 BY MS. TINGSTAD:</p> <p>14 Q. Mr. Striupaitis --</p> <p>15 A. There were two systems.</p> <p>16 Q. Go ahead, Mr. Striupaitis. You can answer</p> <p>17 the question.</p> <p>18 A. Well, besides being an examiner, I was also</p> <p>19 a training coordinator to train technicians, and then</p> <p>20 another video imagery program, which was called Drug</p> <p>21 Flyer. It was run by the FBI. And then the other one,</p> <p>22 which was a precursor was IBIS, which was called</p> <p>23 "Bulletproof" was used but -- when Drug Flyer is no</p> <p>24 longer -- no longer used a video imagery program.</p>	<p>154</p> <p>1 work?</p> <p>2 A. Some verifications.</p> <p>3 Q. And some verifications?</p> <p>4 A. Right.</p> <p>5 Q. And then -- and then you moved back to being</p> <p>6 a forensic examiner in 19 -- around 1992? When was it?</p> <p>7 A. 1993.</p> <p>8 Q. In 1993, you became a forensic examiner</p> <p>9 again?</p> <p>10 A. Correct.</p> <p>11 Q. Did you have to do any refresher courses,</p> <p>12 anything like that?</p> <p>13 A. Other than -- other than doing verifications</p> <p>14 and reading the AOFTE general -- excuse me, AOFTE Journal</p> <p>15 and going to AOFTE seminars, yeah, if you call those</p> <p>16 refresher courses, and maintain continuing education</p> <p>17 throughout.</p> <p>18 Q. And so do you remember, like, what month or</p> <p>19 season you went back to the bench in 1993? I mean, was</p> <p>20 it fall, was it winter? You know, do you remember?</p> <p>21 A. No, I actually really don't.</p> <p>22 Q. Okay. The Broadview Lab at the time, I</p> <p>23 think you said before Dan Gunnell was also on the bench</p> <p>24 as a -- as a firearms examiner in Broadview in 1993. Was</p>

Conducted on October 2, 2020

<p>155</p> <p>1 there anyone else there working firearms cases?</p> <p>2 A. Correct.</p> <p>3 Q. Just the two of you?</p> <p>4 A. I think somewhere along the process, Don</p> <p>5 Smith showed up. He retired from the Chicago Police</p> <p>6 Department and came onboard with the State Police. I</p> <p>7 don't recall specifically when that -- when that</p> <p>8 occurred.</p> <p>9 Q. You don't recall if this was 1993 or not?</p> <p>10 Yes or no?</p> <p>11 A. I really don't. I think -- I think it</p> <p>12 could've been around there, but I don't recall</p> <p>13 specifically.</p> <p>14 Q. So when -- when cases came into the</p> <p>15 Broadview Lab or Broadview branch when you were working</p> <p>16 the bench, did you -- did you and -- like, how did you</p> <p>17 determine who was going to take the case between you and</p> <p>18 Dan?</p> <p>19 A. There was -- well, since I have -- even</p> <p>20 though I had ancillary duties as far as training those</p> <p>21 individuals in that video imagery system, I was still</p> <p>22 considered a three, so I would also work cases.</p> <p>23 So, you know, there were -- you know, I</p> <p>24 believe -- I believe Don Smith was there at that point in</p>	<p>157</p> <p>1 Q. So in -- in 1993 when you were working --</p> <p>2 when you joined Dan Gunnell on the bench, did you have</p> <p>3 more experience than him or -- or who -- who was the more</p> <p>4 senior person there? Oh, you froze.</p> <p>5 A. I think that would have been me.</p> <p>6 Q. Does it sound about right to you that</p> <p>7 Dan Gunnell started his training in 1990 and finished in</p> <p>8 1992?</p> <p>9 A. And then certainly when Don Smith showed up.</p> <p>10 Q. I -- I missed what you said. Can you repeat</p> <p>11 that? I'm sorry.</p> <p>12 A. That's sounds about right.</p> <p>13 Q. So when you started working --</p> <p>14 A. That sounds about right because he trained</p> <p>15 down in Carbondale and then came up.</p> <p>16 Q. So when you started working with him, he had</p> <p>17 been at -- doing examinations for about a year</p> <p>18 independently?</p> <p>19 A. If that's what your timeframe indicates,</p> <p>20 yes.</p> <p>21 Q. How often did you verify Dan Gunnell's work</p> <p>22 at that time?</p> <p>23 A. It would have been all the time until</p> <p>24 Don Smith showed up.</p>
<p>156</p> <p>1 time. There are plenty of cases to go around, and, you</p> <p>2 know, it was, like, whatever is up next, you grab the</p> <p>3 case, and you just work it that way.</p> <p>4 Q. Did you -- would you say because of your</p> <p>5 ancillary duties, that you did fewer forensic cases than</p> <p>6 the other examiners?</p> <p>7 A. No, no. I worked -- I worked just as many.</p> <p>8 Q. So was that about ten -- I'm sorry. I wrote</p> <p>9 down earlier what you said.</p> <p>10 A. 10 to 15 a month or -- I mean, it was</p> <p>11 actually a little -- because I had -- of my duties with</p> <p>12 -- to -- the technicians were trained to test fire guns</p> <p>13 to put into the system, or they were going to be putting</p> <p>14 it into the system, and there were others that -- that I</p> <p>15 trained that were putting into the system already.</p> <p>16 So, I mean, I was doing casework, and -- and</p> <p>17 doing other duties, as well.</p> <p>18 Q. And at that time, when you were acting as a</p> <p>19 forensic examiner with Dan Gunnell, did you also act as</p> <p>20 each other's verifier, or was there someone else in the</p> <p>21 lab who verified your cases?</p> <p>22 A. I believe we acted as each other's verifier,</p> <p>23 and I think there's a possibility Don Smith was there as</p> <p>24 well.</p>	<p>158</p> <p>1 Q. And what did you think of the quality of</p> <p>2 Mr. Gunnell's work?</p> <p>3 A. I think it was -- it was good quality work.</p> <p>4 Q. Okay. I'm going to show you what I'm going</p> <p>5 to mark as Exhibit 1 because I -- I know that --</p> <p>6 MS. TINGSTAD: We can go off the record</p> <p>7 for just one second.</p> <p>8 (Whereupon, the proceedings went off the</p> <p>9 record at 12:26 p.m. through 12:27 p.m.)</p> <p>10 (Whereupon, Exhibit Number 1 was marked for</p> <p>11 identification.)</p> <p>12 BY MS. TINGSTAD:</p> <p>13 Q. Mr. Striupaitis, I'm going to show you a</p> <p>14 document that I'm going to mark as Exhibit 1. It is RFD</p> <p>15 Defense 175 through 177.</p> <p>16 A. Is that up on the screen here somewhere</p> <p>17 or --</p> <p>18 Q. Your lawyer, I think --</p> <p>19 A. Could you repeat that again?</p> <p>20 Q. It's RF -- RFD Defense 175 through 177. I</p> <p>21 can put it on the screen if that's helpful.</p> <p>22 MR. BHAVE: Can you just -- what's the</p> <p>23 document?</p> <p>24 MS. TINGSTAD: Sure. It's the evidence</p>

Conducted on October 2, 2020

<p>1 receipt.</p> <p>2 MR. BHAVE: Yep. I'll get it for him.</p> <p>3 BY MS. TINGSTAD:</p> <p>4 Q. It's easier for me if I'm looking at you,</p> <p>5 but I can put it up on the screen, if necessary.</p> <p>6 MR. BHAVE: 175 RFD Defendants [sic] to</p> <p>7 177?</p> <p>8 MS. TINGSTAD: Yes, that's correct.</p> <p>9 MR. BHAVE: Okay. He's got it.</p> <p>10 THE WITNESS: I have it now in front of</p> <p>11 me.</p> <p>12 BY MS. TINGSTAD:</p> <p>13 Q. Will you just take a few minutes to look at</p> <p>14 that, Mr. Striupaitis. Take your time.</p> <p>15 A. I see my signature is on here.</p> <p>16 Q. Yeah.</p> <p>17 So what is this document, Mr. Striupaitis?</p> <p>18 A. This is an evidence receipt document that's</p> <p>19 -- generally, it's pink in color, and the submitting</p> <p>20 agency submits it, and they indicate who's the victim,</p> <p>21 what the offense is, and their agency numbers, and they</p> <p>22 put a -- the laboratory in Rockford puts their laboratory</p> <p>23 casing in the upper right-hand corner.</p> <p>24 Then when we go through the evidence and</p>	<p>159</p> <p>1 "received from" and "received by", I'm just going to go</p> <p>2 through these lines here on June 9th, received from</p> <p>3 Charlene Getty or C. Getty. I'm sorry. I don't want to</p> <p>4 -- "C. Getty to/received by Jack Welty". Do you see</p> <p>5 that?</p> <p>6 A. Yeah, I see it.</p> <p>7 Q. Okay. So that would be Mr. Welty.</p> <p>8 And it looks like two days later on June</p> <p>9 11th, the items are returned to the firearms section</p> <p>10 evidence vault received by Emily Ann -- someone. Do you</p> <p>11 see that?</p> <p>12 A. Yeah.</p> <p>13 Q. Would that indicate that the firearm</p> <p>14 inspection evidence vault is -- would be at the police</p> <p>15 department, correct?</p> <p>16 A. At the laboratory.</p> <p>17 Q. At the laboratory. Okay. At the -- at the</p> <p>18 ISP laboratory. Is that what you call your evidence</p> <p>19 vault?</p> <p>20 A. Yeah, because the Leanne Gray was a worker</p> <p>21 at the -- at the laboratory in Hartford.</p> <p>22 Q. Got it. So this means that Jack -- so would</p> <p>23 be in the possession of Jack Welty for two days and then</p> <p>24 go into the vault.</p>
<p>160</p> <p>1 mark it, and then, in turn, the lab takes custody of it.</p> <p>2 Q. And, Mr. Striupaitis, is that your signature</p> <p>3 on the first page and the second page in the "received</p> <p>4 by" column?</p> <p>5 A. First page, items -- yes, it is.</p> <p>6 Q. Okay. Do you -- do you have any independent</p> <p>7 recollection of -- of receiving evidence and signing your</p> <p>8 name on this document?</p> <p>9 A. No.</p> <p>10 Q. So let's just take a look at the first page</p> <p>11 under the evidence description, it indicates that a</p> <p>12 "sealed baggy containing film containers -- containing</p> <p>13 film containers with bullet fragments, a sealed baggy</p> <p>14 containing two film containers with spent casings, sealed</p> <p>15 baggy containing fired bullet, sealed bag containing</p> <p>16 spent bullet." This is the way that these items were</p> <p>17 packaged.</p> <p>18 Do you see any -- anything strange about</p> <p>19 that, or is that normal?</p> <p>20 A. It seems to -- appears to be normal. The --</p> <p>21 the column on the left with the items 1 through 4 is -- I</p> <p>22 guess was a darker shade of pink or something because it</p> <p>23 just barely comes through. It seems to be in order.</p> <p>24 Q. Okay. And then down below when it says</p>	<p>162</p> <p>1 Then after that, later that day, 20 minutes</p> <p>2 later, it looks like from 9:00 -- at 9:20 a.m.,</p> <p>3 Leanne Gray removed the items from the evidence vault and</p> <p>4 gave them to someone named John Genes. Do you see that?</p> <p>5 A. Yes, I do. I see it. I'm reading the</p> <p>6 evidence report along with you.</p> <p>7 Q. Then the next line indicates that on the</p> <p>8 same date, June 11th at 10:10 a.m., John Genes gave the</p> <p>9 items to someone named Greg Hanson. Do you see that?</p> <p>10 A. Yes.</p> <p>11 Q. And then the following line indicates on the</p> <p>12 same day at 12:27, Greg Hanson handed that -- those items</p> <p>13 off to you, Pete Striupaitis. Do you see that?</p> <p>14 A. Yes, I do.</p> <p>15 Q. Do you -- do you know Greg Hanson?</p> <p>16 A. No, I do not.</p> <p>17 Q. Okay. Let's look at the -- the next page.</p> <p>18 This page includes numbered items 5, 6, 7, 8, 9, 10, 11,</p> <p>19 12. So continuing the list of items from the first page,</p> <p>20 is that -- is that fair?</p> <p>21 A. Yes.</p> <p>22 Q. And it also indicates in that bottom section</p> <p>23 that on June 11th, at 12:28, it looks like Greg Hanson</p> <p>24 gave these items to you, Pete Striupaitis; is that fair?</p>

Conducted on October 2, 2020

<p>163</p> <p>1 A. Yes, that's correct.</p> <p>2 Q. Okay. And at the very bottom, there is a</p> <p>3 typed message at the bottom of this page that says,</p> <p>4 "Compare above evidence with four pieces of evidence</p> <p>5 submitted to Rockford lab on 6/9/93."</p> <p>6 Do you see that? It's at the very bottom?</p> <p>7 A. Yes, I do.</p> <p>8 Q. And that indicates --</p> <p>9 A. Compare them.</p> <p>10 Q. Yeah. The four pieces of evidence had</p> <p>11 already been submitted to the Rockford lab, and then</p> <p>12 taken to your lab two hours away in Broadview; is that</p> <p>13 correct?</p> <p>14 A. I -- you know, I see what -- okay. "Compare</p> <p>15 the evidence with four pieces of evidence submitted to</p> <p>16 the Rockford lab on 6/9." Okay. That's what was -- was</p> <p>17 given to Welty, and then subsequently, that stuff was</p> <p>18 delivered on the 11th.</p> <p>19 Q. To Broadview?</p> <p>20 A. So -- and then compare -- compare 5 through</p> <p>21 12 through -- 1 through 4. Yeah. Okay. Makes sense.</p> <p>22 Q. Did you receive these items on June 11th,</p> <p>23 and when were you the one who signed for the items in the</p> <p>24 lab?</p>	<p>165</p> <p>1 contain the following," so --</p> <p>2 Q. Why do you write that language? Why do you</p> <p>3 include that language there?</p> <p>4 A. Because I don't know what's in the bag.</p> <p>5 Q. Okay. Was that standard procedure?</p> <p>6 A. It was the standard -- standard writing that</p> <p>7 I used, and I picked it up from somewhere. I don't know</p> <p>8 if it was written somewhere or -- or whatever, but that's</p> <p>9 certainly what I used.</p> <p>10 Q. You said earlier that you hadn't heard of</p> <p>11 any cases where one lab would look at items and then send</p> <p>12 the items to another lab to be examined. And does this</p> <p>13 reflect -- does this -- does this refresh your</p> <p>14 recollection that this -- that -- that this happened in</p> <p>15 this case?</p> <p>16 A. All it indicates to me is that the Rockford</p> <p>17 lab had evidence, and then, in turn, they submitted it to</p> <p>18 us.</p> <p>19 Q. Okay. Are you aware that Jack Welty</p> <p>20 conducted a preliminary examination of the -- of the</p> <p>21 fired evidence in this case?</p> <p>22 A. I -- you know, I don't know.</p> <p>23 Q. You -- you aren't aware of that?</p> <p>24 A. I don't know.</p>
<p>164</p> <p>1 A. I was probably there, and they asked for a</p> <p>2 firearms person. You know, it was in close proximity.</p> <p>3 This was 12:27?</p> <p>4 Q. It was, yeah, 12:28 p.m., it looks like,</p> <p>5 lunchtime.</p> <p>6 A. So probably people were out to lunch, and</p> <p>7 they said, "You're a firearms guy, you sign it in."</p> <p>8 Q. Okay. Did you know anything about this case</p> <p>9 when you received -- when you received these -- the --</p> <p>10 these items?</p> <p>11 A. No, I did not. No, I did not.</p> <p>12 Q. Do you recall speaking with Greg Hanson at</p> <p>13 all about the nature of the items he was delivering?</p> <p>14 A. No, I don't recall.</p> <p>15 Q. Would you have at this point signed in the</p> <p>16 items, but at this point, nobody opened all of the bags</p> <p>17 yet, right? You're just signing them in but not opening</p> <p>18 everything up?</p> <p>19 A. Well, at the top, and it looks like it's my</p> <p>20 handwriting. It says, "The below, received in one sealed</p> <p>21 brown paper bag, alleged to contain the following". It</p> <p>22 was in a sealed brown paper bag, those items 1 through 4.</p> <p>23 And then items were -- "items 5 through 12</p> <p>24 were received in one sealed brown paper bag alleged to</p>	<p>166</p> <p>1 Q. Okay. If Jack Welty did conduct the</p> <p>2 preliminary examination in this case, would it surprise</p> <p>3 you that he didn't do the full examination? That he</p> <p>4 wasn't the one to conduct it?</p> <p>5 A. Well, you're indicating that's preliminary,</p> <p>6 so then that wouldn't be, you know, the full, and then it</p> <p>7 was brought to -- brought to our lab.</p> <p>8 Q. Would that surprise you that they would take</p> <p>9 the evidence from someone who'd already looked at the</p> <p>10 fired --</p> <p>11 A. No.</p> <p>12 Q. It wouldn't?</p> <p>13 A. No. I mean, is there -- no. I mean, I</p> <p>14 don't know if he was a full-time firearms examiner at</p> <p>15 that point in time. I mean, he was trained as a firearms</p> <p>16 examiner, but I don't -- you know, I don't -- I don't</p> <p>17 know.</p> <p>18 Q. Do you -- do you remember whether you</p> <p>19 conducted the examination of this evidence or whether</p> <p>20 someone else did?</p> <p>21 A. I did not conduct examination of the</p> <p>22 evidence. I just received it.</p> <p>23 Q. Okay. Do you remember, or do you have any</p> <p>24 recollection of Dan Gunnell conducting the full</p>

Conducted on October 2, 2020

<p>167</p> <p>1 examination of these -- of these items?</p> <p>2 A. No.</p> <p>3 (Whereupon, Exhibit Number 2 was marked for</p> <p>4 identification.)</p> <p>5 BY MS. TINGSTAD:</p> <p>6 Q. Let's -- I'm going to mark as Exhibit 2 the</p> <p>7 Pursley 100002 through 9, and this is the Gunnell -- the</p> <p>8 Gunnell report.</p> <p>9 A. Okay. I have that in front of me.</p> <p>10 Q. Okay. Take a minute to look through it.</p> <p>11 A. I reviewed it.</p> <p>12 Q. Okay. Great. Okay.</p> <p>13 So let's just take it page by page here.</p> <p>14 What is this document?</p> <p>15 A. The first page, the top page that I was --</p> <p>16 is the laboratory report, and it indicates the submitting</p> <p>17 agency, the exhibits that were submitted, and then it</p> <p>18 gets into -- it itemizes the -- it's a laboratory report</p> <p>19 that was written in regard to the evidence that was</p> <p>20 submitted that I signed in for, and it was -- indicates</p> <p>21 the agency that submitted it, the offense, the suspect,</p> <p>22 the victim, and then it has all the items -- excuse me,</p> <p>23 all of the exhibits that were submitted, and then it has</p> <p>24 findings adjacent to the exhibits and the items, and --</p>	<p>169</p> <p>1 A. Yep, that's what it says.</p> <p>2 Q. So 1, 2, 3, and 4 are labeled below as one</p> <p>3 bullet fragment, two 9 millimeter caliber cartridge</p> <p>4 cases, one fired bullet, and one fired bullet. Do you</p> <p>5 see that?</p> <p>6 A. Yes, ma'am, I do.</p> <p>7 Q. Okay. Let's look back at Exhibit 1, the</p> <p>8 first page of Exhibit 1, evidence receipt. Did -- do the</p> <p>9 numbers of these exhibits --</p> <p>10 A. Okay.</p> <p>11 Q. -- correspond? You -- you've pointed out</p> <p>12 that there were exhibit -- lab exhibit numbers 1, 2, 3</p> <p>13 and 4 that are sort of in a darker color.</p> <p>14 A. Yeah.</p> <p>15 Q. Did those correspond to the exhibit numbers</p> <p>16 here in this report?</p> <p>17 A. Yes, they appear that they do.</p> <p>18 Q. Okay. All right. Moving onto the next line</p> <p>19 in Dan Gunnell's report, Exhibit -- what we're calling</p> <p>20 now Exhibit 2, it says "Exhibits 5, 6, and 9 were</p> <p>21 received in the firearm toolmark section on June 15th,</p> <p>22 1993."</p> <p>23 Do you see that?</p> <p>24 A. I do.</p>
<p>168</p> <p>1 and then it's got a note at the very bottom, and then</p> <p>2 it's signed by Dan Gunnell.</p> <p>3 And then there's worksheets after that.</p> <p>4 There's a Bullet Worksheet, laboratory worksheet that has</p> <p>5 a cartridge, another Bullet Worksheet, another Bullet</p> <p>6 Worksheet, and then a Firearm Worksheet, another Firearm</p> <p>7 Worksheet, and then some kind of property evidence thing</p> <p>8 from Rockford Police Department. There's two pages of</p> <p>9 it.</p> <p>10 Q. Thank you.</p> <p>11 A. That's what I have in front of me.</p> <p>12 Q. Okay. Let's just start from the top then.</p> <p>13 Thank you very much.</p> <p>14 On page -- on the first page here dated</p> <p>15 October 7th, 1993, that -- this is a report, as you said,</p> <p>16 authored by Dan Gunnell.</p> <p>17 A. Mm-hmm.</p> <p>18 Q. It says "suspect" -- if you can see down</p> <p>19 here -- "offense, homicide; suspect, Patrick Pursley;</p> <p>20 victim, James A. Ascher." Do you see that?</p> <p>21 A. Yes, ma'am.</p> <p>22 Q. And the next line, it says exhibits 1, 2, 3,</p> <p>23 and 4 were received in the Suburban Chicago Laboratory</p> <p>24 Broadview branch on June 11th, 1993, correct?</p>	<p>170</p> <p>1 Q. What does the "firearm and toolmark section"</p> <p>2 mean? How is that different from the Suburban Chicago</p> <p>3 Laboratory, Broadview branch? Do you know?</p> <p>4 A. Okay. What were 5, 6, 7, 9? 5, 6, 7, 9,</p> <p>5 oh, they could've went to -- they could have went to</p> <p>6 latent prints first for processing, and then, in turn,</p> <p>7 came to the firearms section. You know, it's, like, an</p> <p>8 inter -- interlaboratory stuff. I'm speculating. I</p> <p>9 shouldn't but --</p> <p>10 Q. Yeah.</p> <p>11 That's -- so -- so if we're looking at in</p> <p>12 Exhibit 1, the evidence receipt, the second page --</p> <p>13 A. Right.</p> <p>14 Q. -- where it lists exhibits 5, 6, and 9 --</p> <p>15 A. Right.</p> <p>16 Q. -- which on the second page of Dan Gunnell's</p> <p>17 report referred to exhibit 5 as a Beretta, exhibits 6 --</p> <p>18 A. Right.</p> <p>19 Q. -- as the 11, 9 millimeter caliber</p> <p>20 cartridges, and 9 is the Taurus. Do you see that?</p> <p>21 So those items were received by you</p> <p>22 according to the evidence -- evidence receipt, they were</p> <p>23 received by you on June 11th?</p> <p>24 A. Right. The reason that I said it could've</p>

Conducted on October 2, 2020

<p>171</p> <p>1 gone to latent prints -- and I shouldn't speculate. I 2 know when I received it, but then -- then possibly Dan 3 opened it up and said, "Wait a minute, it should go to 4 latents first." So then it went to latents first because 5 it was gun -- gun evidence, and then, in turn, latents 6 worked it up, and then it was submitted to -- as he 7 indicated on his report, the firearm and toolmark section 8 four days later.</p> <p>9 Q. Was that -- was that normal procedure for 10 evidence to go to latent prints first?</p> <p>11 A. Yes.</p> <p>12 Q. Why is that?</p> <p>13 A. To see if there's any latent prints present.</p> <p>14 Q. And was it important for that to happen 15 before a firearm and toolmark analysis?</p> <p>16 A. Yes, ma'am. Yes, ma'am.</p> <p>17 Q. Okay. And then next line here, is that 18 exhibit 7, 8, 10, 11, and 12 were received in the firearm 19 toolmark section on June 18th, 1993.</p> <p>20 Do you see that?</p> <p>21 A. Yeah.</p> <p>22 Q. And that would refer to, if we look back to 23 the evidence receipt, Exhibit 1, that would refer to 24 exhibit 7, a 9 millimeter magazine with 14 rounds in a</p>	<p>173</p> <p>1 A. That's correct.</p> <p>2 Q. Such as when Mr. Gunnell would have taken -- 3 would have taken custody of the evidence to -- to examine 4 it on these various dates, we would expect to see his 5 signature with those corresponding dates here, correct?</p> <p>6 A. Yeah. I don't know. I mean, you expect it, 7 but I don't know why.</p> <p>8 Q. Okay. Let's look back at Mr. Gunnell's 9 report, and look under the findings column starting on 10 the first page.</p> <p>11 A. Mm-hmm.</p> <p>12 Q. He found that exhibit 1, one bullet fragment 13 was unsuitable for microscopic comparison?</p> <p>14 A. Mm-hmm.</p> <p>15 Q. For 2, exhibit 2, there are actual two 16 cartridge cases here, and he concluded that they were 17 fired by exhibit 9, which is a Taurus?</p> <p>18 A. Correct.</p> <p>19 Q. He also concluded that exhibit 3, one fired 20 bullet was fired in exhibit 9 and exhibit 4 also fired in 21 Exhibit 9. Do you see that?</p> <p>22 A. Yes, I do.</p> <p>23 Q. Okay. Let's go to the first Bullet 24 Worksheet, Mr. Gunnell's first Bullet Worksheet. You</p>
<p>172</p> <p>1 sealed baggy; exhibit 8, a 9 millimeter magazine with 15 2 rounds in a sealed baggy; 10, American Eagle ammo box; 3 11, three live 9 millimeter bullets in a sealed baggy; 4 and exhibit 12 is 19 live 9 millimeter bullets in a 5 sealed baggy.</p> <p>6 And that is also -- those exhibits numbers 7 are consistent with the third page of -- or the second 8 page of Mr. Gunnell's report. Do you see all that? Does 9 that make sense?</p> <p>10 A. Yes, I do.</p> <p>11 Q. Okay. So this -- let me ask you this: When 12 an item is checked into -- when evidence is checked into 13 the lab, such as when you signed for it on June 11th, and 14 then sent from you to another part of the lab, the latent 15 prints section, would we expect to see someone sign for 16 it in the latent prints section?</p> <p>17 A. Yeah, you would expect to see it. Now, I 18 mean, I signed it in, and I probably put it at the shelf 19 where the firearms evidence was in the evidence storage 20 area. So as far as what happened after that --</p> <p>21 Q. When different people take that evidence 22 into their custody and do a test on it or do something 23 with it, it's standard procedure for that -- for them to 24 fill out the evidence receipt, correct?</p>	<p>174</p> <p>1 filled out worksheets that looked like this?</p> <p>2 A. Yes, ma'am.</p> <p>3 Q. This refers to exhibit number 1, and can you 4 just tell me what -- what you see and understand to be on 5 this worksheet?</p> <p>6 A. Exhibit number, case number, who we received 7 it from, the date he received it.</p> <p>8 Q. He received it on June 15th, 1993?</p> <p>9 A. That's what he has on the worksheet, yeah.</p> <p>10 Q. Is it -- is it -- that's -- for exhibit 1, 11 that date is actually different than the date on the 12 front page of the report.</p> <p>13 A. Yes, it is.</p> <p>14 Q. The front page of the report says June 11.</p> <p>15 A. Yes, yes, it is.</p> <p>16 Q. Is that normal?</p> <p>17 A. It's certainly not consistent with what it 18 should be.</p> <p>19 Q. But you would expect to see those dates be 20 consistent?</p> <p>21 A. Yes, that's correct.</p> <p>22 Q. Okay. So this is inconsistent. It says 23 it's received on June 15th, 1993. It's in a film 24 container under "packaging", and it says -- there's</p>

Conducted on October 2, 2020

<p style="text-align: right;">175</p> <p>1 nothing on caliber, but there's a weight, 2.4 grains.</p> <p>2 A. And then the trace evidence is N.O., which I</p> <p>3 -- I would presume -- which is probably not -- like, not</p> <p>4 observed.</p> <p>5 Q. Oh, N-O, not observed.</p> <p>6 What is trace evidence?</p> <p>7 A. If there would be anything on the bullet</p> <p>8 that could possibly be of evidentiary value, like, blood,</p> <p>9 hair, fiber, gypsum if it came from drywall, stuff like</p> <p>10 that.</p> <p>11 Q. Okay. There's a notation here that says --</p> <p>12 does that say, "Brass colored fragment of bullet jacket"?</p> <p>13 A. Correct.</p> <p>14 Q. So that would indicate that this bullet had</p> <p>15 a fragment of a jacket still on it?</p> <p>16 A. It would indicate that it was a fragment of</p> <p>17 a bullet jacket.</p> <p>18 Q. So you -- you mentioned before that some</p> <p>19 bullets have just lead, and some bullets have jackets on</p> <p>20 them?</p> <p>21 A. Yes, ma'am.</p> <p>22 Q. Okay. And that would be just a coating of</p> <p>23 metal on the outside of the lead, right?</p> <p>24 A. Yeah. He says "brass colored", so that</p>	<p style="text-align: right;">177</p> <p>1 Q. Okay. So received from PS, Pete</p> <p>2 Striupaitis?</p> <p>3 A. Mm-hmm.</p> <p>4 Q. And the date received, June 15th, 1993?</p> <p>5 A. Mm-hmm.</p> <p>6 Q. Would you expect to -- again, would you</p> <p>7 expect to see that reflected again in the evidence</p> <p>8 receipt?</p> <p>9 A. Yes, I would expect that.</p> <p>10 Q. So if we keep going down, "The description</p> <p>11 of the package, a clear plastic bag; description of</p> <p>12 markings as received on the package, laboratory marks,</p> <p>13 CIDI." What does that mean?</p> <p>14 A. Case initials, date initials.</p> <p>15 Q. Okay. And what would that be as a</p> <p>16 laboratory mark?</p> <p>17 A. The -- that would be the case -- that would</p> <p>18 be what was written on the packaging that the examiner</p> <p>19 would put on, would be the case number, their initials</p> <p>20 and the date, and -- and then another initial, maybe --</p> <p>21 Q. And that -- that would go on the cartridge</p> <p>22 case itself, on the physical cartridge case?</p> <p>23 A. No. It would go on the packaging.</p> <p>24 Q. Okay. So you see here that Mr. Gunnell, it</p>
<p style="text-align: right;">176</p> <p>1 would be -- yes, that would be a coating.</p> <p>2 Q. The condition of the bullet says, "mutilated</p> <p>3 and unidentifiable"?</p> <p>4 A. Right.</p> <p>5 Q. And the finding is "unsuitable"?</p> <p>6 A. Correct.</p> <p>7 Q. I don't see any marking here that you would</p> <p>8 have verified this -- this finding that it was</p> <p>9 unsuitable. Is there a reason for that?</p> <p>10 A. That is not an identification.</p> <p>11 Q. So there's only a requirement to verify</p> <p>12 identifications?</p> <p>13 A. Correct.</p> <p>14 Q. Okay. Let's go onto the next page. This is</p> <p>15 page -- it says "laboratory worksheet" on the top. This</p> <p>16 is Pursley 100005.</p> <p>17 At the top, it says, "Date examined, June</p> <p>18 15th, 1993," and it indicates that the exhibits are</p> <p>19 two -- exhibit number 2, two cartridge cases. And then</p> <p>20 the next line says, "source/date received".</p> <p>21 Do you see that?</p> <p>22 A. I do.</p> <p>23 Q. What does "PS" mean for source?</p> <p>24 A. That would be my initials.</p>	<p style="text-align: right;">178</p> <p>1 appears he labeled these 2-A and 2-B, the cartridge cases</p> <p>2 are 2-A and 2-B.</p> <p>3 A. Correct.</p> <p>4 Q. These are two questioned cartridge cases,</p> <p>5 correct?</p> <p>6 A. Correct. Two discharged 9 millimeter</p> <p>7 cartridge cases.</p> <p>8 Q. That were, yeah, okay. Neither of these is</p> <p>9 a test fire, correct?</p> <p>10 A. Correct.</p> <p>11 Q. Can you just tell me what you see here in</p> <p>12 terms of the -- these -- these drawings?</p> <p>13 A. It's the base or the head of the cartridge</p> <p>14 case, and on two ways, it indicates it's not 9 by 19,</p> <p>15 which is the caliber. '92, is the year that it was</p> <p>16 manufactured, and L -- I can't take make that out. It</p> <p>17 must be the manufacturer's markings as well.</p> <p>18 And then it says, "brass -- case color,</p> <p>19 brass and primer." I think he's referring to -- I don't</p> <p>20 know what he's referring to there.</p> <p>21 And under 2-B, it says "CCI", which is the</p> <p>22 manufacturer, "9 millimeter Luger" is a caliber, and NR,</p> <p>23 which indicates nonreloadable. Those cartridges are</p> <p>24 alluminum, and they -- you don't reload those cartridges,</p>

Conducted on October 2, 2020

<p style="text-align: right;">179</p> <p>1 and that's what the manufacturer designates on there.</p> <p>2 Q. Okay. So 2-A is -- is it fair to say 2-A is</p> <p>3 a brass cartridge or brass-colored cartridge?</p> <p>4 A. Right.</p> <p>5 Q. And 2-B is an alluminum cartridge that is</p> <p>6 nonreloadable because it says "nonreloadable"?</p> <p>7 A. Correct.</p> <p>8 Q. Okay. Down below, there's -- there's</p> <p>9 writing that says, "Will compare with test fired in</p> <p>10 exhibit" --</p> <p>11 A. 5 and 9.</p> <p>12 Q. -- "5 and 9".</p> <p>13 A. Right.</p> <p>14 Q. And just for reference, exhibit 5 is</p> <p>15 described as Beretta, exhibit 9 as a Taurus?</p> <p>16 A. Right. And then there's some --</p> <p>17 Q. Go ahead.</p> <p>18 A. The conclusions indicate that both CCs --</p> <p>19 both cartridge cases were fired in the -- in exhibit 9,</p> <p>20 which I believe is a Taurus.</p> <p>21 Q. And if we look below that -- that is the</p> <p>22 Taurus. If we look below that, it says, "Packaging,</p> <p>23 original. Date, 17 June '93." Would that refer to the</p> <p>24 date that this conclusion was made?</p>	<p style="text-align: right;">181</p> <p>1 it -- because otherwise, before we used to just handwrite</p> <p>2 it in, and it was a date stamp, which made it convenient.</p> <p>3 You just change the date on the date that was verified</p> <p>4 and stamp it in there, and then there was an -- it says</p> <p>5 "ID verified", and then there's initials in there. Those</p> <p>6 initials are mine.</p> <p>7 Q. Okay. So can you just walk me through the</p> <p>8 process of how -- at what point would you stamp -- stamp</p> <p>9 this?</p> <p>10 A. After I looked at the evidence</p> <p>11 microscopically.</p> <p>12 Q. So what I'm seeing on this page is: I'm</p> <p>13 seeing two questioned cartridge cases, 2-A and 2-B</p> <p>14 side-by-side?</p> <p>15 A. Mm-hmm.</p> <p>16 Q. Did you look at 2-A and 2-B side-by-side to</p> <p>17 -- to put this stamp down, or what would you have looked</p> <p>18 at?</p> <p>19 A. No. I would look at whatever he had test</p> <p>20 fired and compared those to the test firings.</p> <p>21 Q. Okay. So he -- reflecting what we discussed</p> <p>22 before, Mr. Gunnell in this case -- first I want to ask</p> <p>23 again, do you have any independent recollection of -- of</p> <p>24 this particular verification?</p>
<p style="text-align: right;">180</p> <p>1 MR. BHAVE: Objection; speculation.</p> <p>2 BY MS. TINGSTAD:</p> <p>3 Q. What would that refer to?</p> <p>4 MR. BHAVE: Objection; speculation.</p> <p>5 BY MS. TINGSTAD:</p> <p>6 Q. You can answer, if you know.</p> <p>7 A. I -- I don't -- it would seem that it is,</p> <p>8 but I don't -- I don't know.</p> <p>9 Q. When you filled out laboratory worksheets</p> <p>10 like this and dated them, would you -- what date would</p> <p>11 you put down there in that spot?</p> <p>12 A. The date that I was finished with it.</p> <p>13 Q. Okay. And the analyst, are you familiar</p> <p>14 with that -- those -- those initials?</p> <p>15 A. Yeah, that's DBG. I don't know what his</p> <p>16 middle initial is, but that's definitely -- those were</p> <p>17 his initials.</p> <p>18 Q. That's Dan. Okay.</p> <p>19 So do you see the red stamps -- two red</p> <p>20 stamps on this page?</p> <p>21 A. Mine are black and white.</p> <p>22 Q. Okay. All right. Well, mine -- you see the</p> <p>23 two stamps, the verification stamps?</p> <p>24 A. Yeah. We had a stamp that we used and made</p>	<p style="text-align: right;">182</p> <p>1 A. No, no, I do not.</p> <p>2 Q. Okay. So what we've discussed in the -- was</p> <p>3 it -- your process would be, Mr. Gunnell would be looking</p> <p>4 at, let's say, 2-A and a test fire next to it. You line</p> <p>5 it up so that it looked -- so that, you know, it lined up</p> <p>6 well, and then you say, "I see something interesting</p> <p>7 here. Can you come over and take a look?"</p> <p>8 A. Right.</p> <p>9 Q. And you knew -- you knew that to mean that</p> <p>10 there's -- there's an identification here, right?</p> <p>11 A. Yes. That's correct.</p> <p>12 Q. Okay. So then you would take a look, and</p> <p>13 you would say, "Yeah, I agree"?</p> <p>14 A. Correct.</p> <p>15 Q. Okay. So at what point then -- as soon as</p> <p>16 you said, "Yeah, I agree," did Mr. Gunnell have his</p> <p>17 worksheet right there that you would just stamp it or how</p> <p>18 did it -- how did that -- how did the stamps happen?</p> <p>19 A. I think I would move onto another item, and</p> <p>20 then he would stamp all of them, and then I would initial</p> <p>21 all of them.</p> <p>22 Q. Oh, okay. So you would take a look -- he</p> <p>23 would -- he would line up the other item. He would say,</p> <p>24 "Oh, here's 2-B. Here's the test fire next to 2-B, take</p>

Conducted on October 2, 2020

<p>1 a look." You take a look, you'd say, "Okay?"</p> <p>2 A. Right.</p> <p>3 Q. And then he'd put the bullets on for you,</p> <p>4 you take a look, you'd say, "Okay", and then he actually</p> <p>5 would stamp these, and you would just initial?</p> <p>6 A. Correct.</p> <p>7 Q. Okay. And in this case, as in -- as in the</p> <p>8 other cases, you wouldn't have, as the verifier, looked</p> <p>9 at the two test fires and compared those two, correct?</p> <p>10 A. No, I would not have.</p> <p>11 Q. Okay. Is this level of detail, in terms of</p> <p>12 the -- what's observed under the microscope for 2-A and</p> <p>13 2-B, is this level of detail consistent with how you</p> <p>14 worked up cases?</p> <p>15 A. No. I would be -- I would probably put it</p> <p>16 in a little bit more.</p> <p>17 Q. Like, can you give me an example?</p> <p>18 A. Like, what -- if they were parallel lines in</p> <p>19 the primary area, I would draw in the parallel lines, and</p> <p>20 I would put -- you know, drawing just a little bit -- a</p> <p>21 little bit more then -- that's just me.</p> <p>22 Q. It's not required to draw more or give more</p> <p>23 detail?</p> <p>24 A. I believe so.</p>	<p>183</p> <p>1 Q. So you knew what his conclusion was before</p> <p>2 you looked at it under the scope?</p> <p>3 A. No, not necessarily. I -- I -- I mean, are</p> <p>4 you saying that he wrote that in there at the bottom and</p> <p>5 said that? I -- no. I don't --</p> <p>6 Q. No, no. Just you knew that he was -- he was</p> <p>7 -- he found an identification before you looked at it</p> <p>8 under the scope?</p> <p>9 A. That's correct.</p> <p>10 Q. Okay. We'll move onto the next page then,</p> <p>11 Pursley 100006. This is a Fired Bullet Worksheet, and it</p> <p>12 indicates this is about exhibit number 3, right?</p> <p>13 A. Correct.</p> <p>14 Q. Okay. What does that "received from" mean?</p> <p>15 A. That's "FSPS" or -- the "PS", that was me.</p> <p>16 I don't know what he's got there on the front of it.</p> <p>17 Q. You don't know what "FS" might refer to?</p> <p>18 A. Well, I know that "FS" refers to forensic</p> <p>19 scientist.</p> <p>20 Q. Huh, okay.</p> <p>21 A. I mean, is that an "FS"? Yeah, I guess it</p> <p>22 is an "FS".</p> <p>23 Q. So received from forensic scientist Pete</p> <p>24 Striupaitis?</p>
<p>184</p> <p>1 Q. And is this -- is this practice of just</p> <p>2 diagramming the evidence cartridge cases next to each</p> <p>3 other and not including any diagrams of test fires, is</p> <p>4 that according to the ISP protocols?</p> <p>5 A. Yeah. The test fires -- the test fires were</p> <p>6 never ever documented, but the fired evidence was.</p> <p>7 Q. So just to be clear, when you came over to</p> <p>8 look under the microscope, you were aware that Gunnell</p> <p>9 had found an identification as you were being asked to</p> <p>10 verify it?</p> <p>11 MR. BHAVE: Objection; speculation.</p> <p>12 BY MS. TINGSTAD:</p> <p>13 Q. Correct?</p> <p>14 MR. BHAVE: Objection; speculation.</p> <p>15 BY MS. TINGSTAD:</p> <p>16 Q. We covered this multiple times. You can</p> <p>17 answer.</p> <p>18 A. He's saying, "I've got something</p> <p>19 interesting. Take a look at it." I would look at it,</p> <p>20 and I would make the verification.</p> <p>21 Q. You were aware when Gunnell called you over,</p> <p>22 when he would call you over to look at something</p> <p>23 interesting, that that was for an identification, right?</p> <p>24 A. Yes, that's correct.</p>	<p>185</p> <p>1 A. Correct.</p> <p>2 Q. And date received, June 15th, 1993, correct?</p> <p>3 A. Correct.</p> <p>4 Q. And you'd expect to see that date reflected</p> <p>5 on the report and on the evidence receipt, correct?</p> <p>6 A. Right. Like I said, I received it, I put it</p> <p>7 in the vault, so I -- it should be consistent.</p> <p>8 Q. So let's -- we'll just walk through each</p> <p>9 line. "Package, paper bag, plastic container." Does</p> <p>10 that look right?</p> <p>11 A. Yes, ma'am.</p> <p>12 Q. What is the circle S?</p> <p>13 A. Sealed.</p> <p>14 Q. Oh, sealed. Okay.</p> <p>15 "Markings on package, trace evidence, N.O."</p> <p>16 That would refer to "not observed", right?</p> <p>17 A. Right. That's what we -- that's what we</p> <p>18 said before, yeah.</p> <p>19 Q. Okay. "Caliber, 9 millimeter, weight" --</p> <p>20 this would be the -- they would have weighed this bullet?</p> <p>21 A. Right.</p> <p>22 Q. Okay. And then the "rifling", what does</p> <p>23 that mean?</p> <p>24 A. That would mean that it would have six land</p>

Conducted on October 2, 2020

<p>187</p> <p>1 and groove impressions to the right, six right.</p> <p>2 Q. Six right. Okay.</p> <p>3 What is "type of bullet"?</p> <p>4 A. Where are you at?</p> <p>5 Q. It's the next line.</p> <p>6 A. Yeah. "Solid, slightly concave" -- I can't</p> <p>7 make that out.</p> <p>8 Q. "Solid slightly", yeah, con -- con</p> <p>9 something, maybe concave?</p> <p>10 A. Maybe concave, yeah.</p> <p>11 Q. Is "concave" a word that you use to describe</p> <p>12 bullets?</p> <p>13 A. Yes.</p> <p>14 Q. Okay.</p> <p>15 A. And that would be concave at the base.</p> <p>16 Q. At the base of the bullet?</p> <p>17 A. Yes.</p> <p>18 Q. So where the bullet enters in -- or is</p> <p>19 inside of the cartridge case?</p> <p>20 A. Correct.</p> <p>21 Q. Okay. Then inside of this box, there's</p> <p>22 circled, "it's a jacketed bullet"?</p> <p>23 A. Correct.</p> <p>24 Q. It's a full metal jacket?</p>	<p>189</p> <p>1 A. Mm-hmm.</p> <p>2 Q. Do you see that?</p> <p>3 And then in the "firearm description" box,</p> <p>4 it indicates that that was exhibit number 9 that it was</p> <p>5 identified to; is that correct?</p> <p>6 A. Correct.</p> <p>7 Q. And then there's a stamp. This is a</p> <p>8 verified stamp?</p> <p>9 A. Right. And then my initials in the middle</p> <p>10 of it.</p> <p>11 Q. And that verification is dated June 17th,</p> <p>12 1993?</p> <p>13 A. Correct.</p> <p>14 Q. So for you to verify this bullet, would it</p> <p>15 be the same process where the -- exhibit 3, this</p> <p>16 questioned bullet would be on a -- on the microscope with</p> <p>17 one of the test fires?</p> <p>18 A. Correct.</p> <p>19 Q. And then you would -- you know, Mr. Gunnell</p> <p>20 would say, "Take a look at this"?</p> <p>21 A. Right.</p> <p>22 Q. And then you would go over and look at it,</p> <p>23 and you would see that he'd lined up where they sort of</p> <p>24 -- where the striations --</p>
<p>188</p> <p>1 A. Right.</p> <p>2 Q. And then it says, "Most part of jacket is</p> <p>3 missing."</p> <p>4 Do you see that?</p> <p>5 A. Correct. Correct.</p> <p>6 Q. Okay. Why would -- is that -- is that</p> <p>7 normal for you to see a jacket missing from a bullet?</p> <p>8 A. Yeah. When the -- when it strikes an object</p> <p>9 or -- there definitely is some of that jacketing that</p> <p>10 comes off.</p> <p>11 Q. Okay. So the description here, this -- or</p> <p>12 condition of bullet is circled as mutilated?</p> <p>13 A. Correct.</p> <p>14 Q. But still suitable -- underneath, "findings</p> <p>15 suitable".</p> <p>16 So what does that mean, that the bullet that</p> <p>17 is mutilated is still suitable? What does that mean?</p> <p>18 A. That it's still suitable for comparison</p> <p>19 purposes.</p> <p>20 Q. So there's still enough markings visible</p> <p>21 that you can compare it?</p> <p>22 A. Correct.</p> <p>23 Q. Okay. And then underneath there, it says,</p> <p>24 "Positive identification date, 17 June 1993."</p>	<p>190</p> <p>1 A. Yeah. Not just that area, but go around the</p> <p>2 periphery as well.</p> <p>3 Q. Okay. Can you just -- so that would be,</p> <p>4 like, being in the phase, right? The bullet would be in</p> <p>5 phase, where you -- where you line up the matching land</p> <p>6 impressions and --</p> <p>7 A. Very good, Counsel. You know the term.</p> <p>8 Q. I know a lot -- I mean, well, I've just</p> <p>9 talked to a lot of experts. So, yes.</p> <p>10 So the bullet -- so the bullet would already</p> <p>11 be in phase when you went to look at it. Then you'd just</p> <p>12 turn it, turn it, turn it, make sure that it matches all</p> <p>13 the way around, correct?</p> <p>14 A. Correct.</p> <p>15 Q. Okay. And then taking a look at the next</p> <p>16 page, exhibit 4, the Bullet Worksheet. Again, exhibit 4</p> <p>17 is a fired bullet.</p> <p>18 It says, "Received from" on the second line</p> <p>19 "FSPS". That's forensic scientist Pete Striupaitis?</p> <p>20 A. Yes.</p> <p>21 Q. And the "date received, 15 June 1993"?</p> <p>22 A. Correct.</p> <p>23 Q. Okay. The other packaging, we know that's</p> <p>24 "sealed paper bag, sealed film container, markings on</p>

Conducted on October 2, 2020

<p>191</p> <p>1 package, trace evidence not observed or N.O". Does that</p> <p>2 all sound correct to you?</p> <p>3 A. Yes, ma'am, it does.</p> <p>4 Q. Okay. The "caliber, 9 millimeter". Then we</p> <p>5 see the weight indicating a higher weight actually, 107.4</p> <p>6 grains?</p> <p>7 A. Right.</p> <p>8 Q. What -- what accounts for these weights</p> <p>9 being different?</p> <p>10 MR. BHAVE: Objection; speculation,</p> <p>11 foundation.</p> <p>12 BY MS. TINGSTAD:</p> <p>13 Q. If you know -- if you know what might</p> <p>14 account?</p> <p>15 A. Different manufacturer.</p> <p>16 Q. Okay. And under here, it says, "type of</p> <p>17 bullet." Do you see where it says -- I'm sorry. Let's</p> <p>18 -- right underneath "caliber", it says "rifling". You</p> <p>19 indicated that "six R" means?</p> <p>20 A. Six right.</p> <p>21 Q. Six right with a right-hand twist?</p> <p>22 A. Correct.</p> <p>23 Q. The next line down, what -- what is this</p> <p>24 "groove IMP, land IMP" in the spaces there? What would</p>	<p>193</p> <p>1 that?</p> <p>2 A. Well, bonafide is when you actually fill out</p> <p>3 -- when you actually fill out the worksheet and -- and</p> <p>4 make a report as opposed to informally just, like, take</p> <p>5 measurements and check them against database and tell</p> <p>6 them which -- which guns you think might have fired that</p> <p>7 bullet.</p> <p>8 Q. Was it -- was it policy at --</p> <p>9 A. It's a preliminary as opposed to a formal.</p> <p>10 Q. Was it -- was it the policy at ISP and the</p> <p>11 forensic lab that if you were -- if one was conducting a</p> <p>12 preliminary examination and measuring the lands and</p> <p>13 grooves to enter it in, that, you know, the Bullet</p> <p>14 Worksheet should have been filled out?</p> <p>15 A. It wasn't the policy, but I've -- I've heard</p> <p>16 it's done by individuals who is -- there's an individual</p> <p>17 that I know did that and -- at his agency because he had</p> <p>18 been working there for 30 years, and they wanted an</p> <p>19 answer. And then, in turn, they got the gun, and they --</p> <p>20 and it was, in fact, the gun.</p> <p>21 But is it -- is it good practice?</p> <p>22 Absolutely not.</p> <p>23 Q. Why isn't it good practice? What -- what's</p> <p>24 the problem with not writing it down?</p>
<p>192</p> <p>1 that be for?</p> <p>2 A. Those would be the actual measurements that</p> <p>3 one would take of that Bullet Worksheet. Say for</p> <p>4 instance there was no gun submitted, then you would</p> <p>5 measure the land and groove impressions, and then submit</p> <p>6 them into that database that I mentioned earlier.</p> <p>7 Q. I see. So you -- so this is crossed out?</p> <p>8 A. You could be -- you didn't have to do that</p> <p>9 for them because there was a gun in question.</p> <p>10 Q. Understood.</p> <p>11 So is this the same kind of Bullet Worksheet</p> <p>12 that one might fill out when doing a preliminary</p> <p>13 examination to try to get enough information to enter it</p> <p>14 into the database?</p> <p>15 A. It's certainly one that one should fill out,</p> <p>16 but I've heard in some instances that -- it's hearsay --</p> <p>17 where they measure it and do a quick look-see and then</p> <p>18 provide that information to the submitting agency, and</p> <p>19 again, none of it would be bonafide until it was written</p> <p>20 in the worksheet and then sent out a report.</p> <p>21 Q. Okay.</p> <p>22 A. It's to help -- it's to help an</p> <p>23 investigative lead.</p> <p>24 Q. What do you mean by "bonafide" when you say</p>	<p>194</p> <p>1 A. Well, you write it down, and you write it on</p> <p>2 -- it's informal, and there shouldn't be any, you know --</p> <p>3 it's like -- it usually happens on a weekend, and it's,</p> <p>4 like, "Give us an answer so that we can" -- and I'm just</p> <p>5 basing this on to an individual that I know did this, and</p> <p>6 he, in turn, got reprimanded and quit his job.</p> <p>7 So it's when you are comfortable with an</p> <p>8 agency to give them an answer, and you really shouldn't</p> <p>9 do that.</p> <p>10 Q. Do you know -- can you give me a name of the</p> <p>11 individual that you are referring to?</p> <p>12 A. No. Okay. Well, you know what, I will,</p> <p>13 because he's gone.</p> <p>14 Q. Good.</p> <p>15 A. He's not over there. Robert Shem, Alaska</p> <p>16 Anchorage -- Alaska Department of Public Safety,</p> <p>17 Anchorage, Alaska. You know, I -- I really -- I</p> <p>18 shouldn't have opened my mouth. He's a partner of mine.</p> <p>19 Q. Well, I won't -- I won't tell him</p> <p>20 A. Well, now that it's public record, yeah.</p> <p>21 Q. But, you know, you said it's better to have</p> <p>22 it -- it's for -- it's informal. It's informal not to</p> <p>23 make a note of it, not to make a record -- record of it.</p> <p>24 But are there any other quality concerns beyond that with</p>

Conducted on October 2, 2020

<p>195</p> <p>1 not making a record like Mr. Shem did?</p> <p>2 A. No.</p> <p>3 Q. Why would he have gotten fired for that? Do</p> <p>4 you know?</p> <p>5 A. Because his boss made it an issue.</p> <p>6 Q. Okay.</p> <p>7 A. I mean, right down the line, unauthorized</p> <p>8 entry, dah, dah, dah, dah, dah. And after 30 years, he</p> <p>9 quit. And I think --</p> <p>10 Q. Unauthorized entry into the system, into the</p> <p>11 database?</p> <p>12 A. You know, he -- he was there before the boss</p> <p>13 was there, and it was kind of an informal situation, and</p> <p>14 he was good to his agencies, and they were -- they were</p> <p>15 good to him, and apparently, the administrator didn't</p> <p>16 like that.</p> <p>17 Q. Okay. So we can move on and come back to</p> <p>18 this Bullet Worksheet.</p> <p>19 So if you -- I just was asking why that</p> <p>20 wasn't filled in with the dimensions of the grooves and</p> <p>21 lands, and you explained that. Under "type of bullet",</p> <p>22 "RN, open base". What does that mean?</p> <p>23 A. Round nose, and the base is open. I don't</p> <p>24 know what he means by "open". Could be something like</p>	<p>197</p> <p>1 next. The first one I'm -- is the Beretta, which wasn't</p> <p>2 identified with any of these, so I'm just going to skip</p> <p>3 this page and go onto the second Firearm Worksheet about</p> <p>4 -- Pursley 100009.</p> <p>5 A. Hold on a second. I -- you lost me there</p> <p>6 for a second.</p> <p>7 Q. Okay. Take your time.</p> <p>8 A. You're -- you're not going to do the</p> <p>9 Beretta.</p> <p>10 Q. No.</p> <p>11 A. And then you want to -- you want to go to</p> <p>12 exhibit 9?</p> <p>13 Q. Yes -- or no. If you -- no. I just want to</p> <p>14 go to the next Firearm Worksheet, exhibit 9. Yes, you're</p> <p>15 right.</p> <p>16 A. Right, right. Okay.</p> <p>17 Q. Great. Okay.</p> <p>18 So it's -- this indicates that this</p> <p>19 worksheet is for exhibit 9.</p> <p>20 A. Mm-hmm.</p> <p>21 Q. And it's received from "FSBW". What is</p> <p>22 that?</p> <p>23 A. I don't know.</p> <p>24 Q. Forensic scientist BW. The other person you</p>
<p>196</p> <p>1 more than concave. That's just -- I don't know what he</p> <p>2 means by that. You'd have to ask him.</p> <p>3 Q. Okay. In the box there, it says it's a</p> <p>4 "full jacketed copper" --</p> <p>5 A. "Copper colored".</p> <p>6 Q. "Copper colored" --</p> <p>7 A. Right.</p> <p>8 Q. -- "bullet". Okay.</p> <p>9 And then the condition of the bullet is</p> <p>10 mutilated. Under findings, it says it's "suitable", and</p> <p>11 that indicates that it's suitable for comparison,</p> <p>12 correct?</p> <p>13 A. Yes, ma'am, that's correct.</p> <p>14 Q. And then the other finding is that it's</p> <p>15 positive identification on 17 June 1993, with the exhibit</p> <p>16 9, the Taurus, correct?</p> <p>17 A. Correct.</p> <p>18 Q. And that was -- this stamp indicates that it</p> <p>19 was verified by you?</p> <p>20 A. Yes, ma'am.</p> <p>21 Q. Okay. In the same -- in the same manner</p> <p>22 that we have discussed already, correct?</p> <p>23 A. Correct.</p> <p>24 Q. Okay. So this Firearm Worksheets that are</p>	<p>198</p> <p>1 said was there might have been Don Smith, right?</p> <p>2 A. Right. Right. Remember we talked about</p> <p>3 there's a possibility it went to latent prints? Maybe he</p> <p>4 was a latent prints examiner. I don't -- I don't know</p> <p>5 who that is.</p> <p>6 Q. So "FS" could also refer to a latent prints</p> <p>7 examiner?</p> <p>8 A. Yes, ma'am.</p> <p>9 Q. Okay. Date received 15 June '93, and it's</p> <p>10 received from this person, so we would expect to see that</p> <p>11 in the evidence receipt, correct?</p> <p>12 A. Correct.</p> <p>13 Q. Okay. "Description of package", that's</p> <p>14 another circle S, so that means sealed manila --</p> <p>15 A. Envelope.</p> <p>16 Q. Envelope, okay.</p> <p>17 "Location of markings are on the package."</p> <p>18 And then here, is this -- "CAL", does that refer to</p> <p>19 caliber?</p> <p>20 A. Yes, ma'am.</p> <p>21 Q. Okay. And that's 9 millimeter, correct?</p> <p>22 A. Correct.</p> <p>23 Q. Okay. "Make", says "Taurus". What is the</p> <p>24 rest of that?</p>

Conducted on October 2, 2020

<p>199</p> <p>1 A. International Manufacturing, Inc.</p> <p>2 Q. Oh, okay.</p> <p>3 A. I think that's the -- I think that's the</p> <p>4 importer.</p> <p>5 Q. And that would be indicated on -- on</p> <p>6 the last --</p> <p>7 A. No, no. It's not the importer. The</p> <p>8 importer is indicated down below, that it's Taurus and</p> <p>9 Miami, Florida. That's, I guess, what was -- we tried to</p> <p>10 write down what appears on the guns so that probably</p> <p>11 appeared on the gun, and he wrote it down onto the sheet.</p> <p>12 Q. Okay. So it -- so the "make,</p> <p>13 Taurus Int", and the "GINC", would have appeared probably</p> <p>14 on the gun itself, on the weapon?</p> <p>15 A. Yes, ma'am.</p> <p>16 Q. And then the "model PT99AF", would also</p> <p>17 appear --</p> <p>18 A. On the gun as well.</p> <p>19 Q. Okay. What is the next line, "DERRA --</p> <p>20 finish, plated, other"? What does that all mean?</p> <p>21 A. I'm trying to -- oh, plated blued finish,</p> <p>22 whether or not it's plated, if it's chrome plated blue,</p> <p>23 which is a blue process, whether it's stainless steel, so</p> <p>24 its finish.</p>	<p>201</p> <p>1 A. Yes. That's correct.</p> <p>2 Q. Okay. And then "Where made, Brazil".</p> <p>3 A. Right.</p> <p>4 Q. And where does this "importer information"</p> <p>5 come from? "Miami, Florida", where does that come from?</p> <p>6 A. That was probably on the gun.</p> <p>7 Q. They stamp -- they stamp the --</p> <p>8 A. There's a stamp on the gun, right.</p> <p>9 Q. Where is the importer usually stamped?</p> <p>10 A. On the slide or the receiver.</p> <p>11 Q. Okay. And then the serial number there is</p> <p>12 written as "TLF55001D"?</p> <p>13 A. Correct.</p> <p>14 Q. And then why is there a -- why is "REC"</p> <p>15 circled right after that?</p> <p>16 A. That's the receiver -- that was on the</p> <p>17 receiver where the serial number was.</p> <p>18 Q. So the serial number is on the receiver.</p> <p>19 What's the receiver again?</p> <p>20 A. It's the lower portion of the -- of the gun;</p> <p>21 sometimes referred to as -- as the frame. There's a</p> <p>22 slide that goes back and forth, and there's a barrel.</p> <p>23 Well, there's -- the receiver is the bottom portion of it</p> <p>24 that receives the cartridges.</p>
<p>200</p> <p>1 Were you asking about the DERR, AEIR?</p> <p>2 Q. Yeah. I was just asking what those things</p> <p>3 mean.</p> <p>4 A. DERR is Derringer; AER is aero pistol; REV</p> <p>5 is revolver; RF is rimfire, which are .22s that don't</p> <p>6 have a center fire, and then it was -- he circled</p> <p>7 "pistol" and "smooth bore" refers to shotguns.</p> <p>8 Q. Okay. So "pistol" circled here, that's,</p> <p>9 like, the kind of weapon it is, right?</p> <p>10 A. Yes, ma'am.</p> <p>11 Q. Okay. And then the finish is indicated as</p> <p>12 "blued"?</p> <p>13 A. Right.</p> <p>14 Q. Does it really look blue or what is -- I</p> <p>15 mean, to a layperson, what would that look like? Because</p> <p>16 I don't think I've ever seen --</p> <p>17 A. It would look like blue or black, yeah.</p> <p>18 Q. Almost like a black metal?</p> <p>19 A. Yeah. It's bluish. It's -- it's a process</p> <p>20 that they use to -- to manufacture or to -- you know, for</p> <p>21 that type of weapon. It's not blue like the sky is blue.</p> <p>22 It's like a dark blue.</p> <p>23 Q. Okay. And that would be the color of the</p> <p>24 metal, the metal finish?</p>	<p>202</p> <p>1 Q. Okay. It's not the grip? It's not the grip</p> <p>2 part?</p> <p>3 A. Well, the grip is part of the receiver.</p> <p>4 Q. Okay.</p> <p>5 A. Because the magazine holds the cartridges,</p> <p>6 and you put the magazine up into the receiver.</p> <p>7 Q. I see. So it is part of the grip then?</p> <p>8 A. The grip is part of the receiver, yes.</p> <p>9 Q. Then it -- it indicates that capacity is 15.</p> <p>10 What is that?</p> <p>11 A. 15, it will take 15 cartridges, and the plus</p> <p>12 one is one in the chamber. So you can have -- that will</p> <p>13 hold 16 cartridges. By "one in the chamber", that means</p> <p>14 you would have to -- you put 15 into the magazine. It's</p> <p>15 a magazine, it's not a clip. And then you put one in the</p> <p>16 -- in the chamber, and then you are able to put another</p> <p>17 cartridge in the magazine so the capacity is 15 plus 1.</p> <p>18 Q. Understood. What does the next line say?</p> <p>19 "Magazine" -- what is that above there, that indication?</p> <p>20 A. Yeah. I don't know. Something, something</p> <p>21 "SC". It's getting more descriptive about the magazine.</p> <p>22 A large -- it's -- those are large capacity. I don't</p> <p>23 know if it -- that's something that he can tell you.</p> <p>24 Q. Okay. So the "firing mechanisms", it says,</p>

Conducted on October 2, 2020

<p style="text-align: right;">203</p> <p>1 "hammer, single-action, double-action". What does it 2 mean for something to be single and double-action? 3 A. In single-action, you have -- you have to 4 pull the slide back on the gun and chamber a round and 5 then squeeze the trigger, and it will fire. It will keep 6 on firing until there's no more -- until you don't 7 squeeze the trigger or there's no more magazine -- no 8 more cartridges in the magazine. 9 In double-action, you don't have to pull the 10 trigger back. You just squeeze the trigger, and the 11 double -- the trigger will pull the -- pull the hammer 12 back and pull it forward, and it will discharge the gun. 13 So this one that has the capability of being single and 14 double-action. 15 Q. And then we'll just go ahead and skip down 16 to where it says -- under "ejection". 17 A. Mm-hmm. 18 Q. It says, "The operating condition was 19 proper, ejection up." And then there's a little diagram. 20 A. Okay. The diagram is of the firing pin and 21 the ejector, where the ejector is located, and the 22 extractor -- where the extractor is located. 23 And the way this is -- the way this is 24 drawn, it's kind of like if -- it's not looking down at</p>	<p style="text-align: right;">205</p> <p>1 pounds are necessary to have the hammer go forward. 2 Q. And in the next line, it says "test ammo", 3 and it indicates the kind of ammo that was used 4 to conduct the test? 5 A. Yeah. Used CCI 115 grain. 6 Q. And is "CCI blaze 115 grain", is that an 7 aluminum jacket -- 8 A. Yes, it is. Because after the "FMJ", it 9 says "NR", which is nonreloadable. 10 Q. Nonreloadable. So that would be similar to 11 2-B, which indicates it's a "CCI nonreloadable aluminum 12 jacket", correct? 13 A. Right. 14 Q. Okay. And then the names of these -- it 15 looks like the names of these test ammos are 921 and 922. 16 Do you see that? 17 A. Let me see that. Yeah, I don't -- yes. 18 Q. Okay. And then under "lab mark", what does 19 that "C SL", circled SL mean? 20 A. "SABI"? Oh, that he marked it on the -- on 21 the slide. 22 Q. Oh, that's where he marked? 23 A. The -- the lab marks, which are engraved 24 with an engraving -- engraving tool, vibrating engraving</p>
<p style="text-align: right;">204</p> <p>1 the gun, it's, like, looking from behind it. That gives 2 you documentation as to the position of those -- those 3 items. 4 Q. So the -- the top of that circle would kind 5 of be, like, 12:00 if you're holding the gun straight up 6 and down, and then you -- it indicates where the 7 extractor mark comes out and where the ejector mark would 8 come? 9 A. Yeah. It more or less tells you where -- 10 where you can find it on the gun as opposed to the 11 cartridge case. 12 Q. Okay. So then if we look down at the 13 bottom, it says -- it indicates some things about trigger 14 pull, "SA" and "DA". What do those refer to? 15 A. Single-action and double-action. 16 Q. Okay. 17 A. It mentioned earlier the gun has both 18 capabilities, and let's see. It's indicating that when 19 you use trigger pull, you use weights, free weights. And 20 the -- in single-action, the weight will hold at 6 21 pounds, and then release at the second number; meaning, 22 it will fall forward. Whereas in double-action, it would 23 hold at 11 and fall forward at 12. 24 So it's an indication as to what the -- what</p>	<p style="text-align: right;">206</p> <p>1 tool. 2 Q. And that's just to say who examined it and 3 when, right? 4 A. This to -- yeah. That's -- indicate that 5 that individual worked that gun. 6 Q. Okay. And you indicated before that -- when 7 you looked at items under the microscope, you didn't 8 really look at anything beyond 30 power, correct? 9 A. Yes, ma'am. 10 Q. So you would have done this verification at 11 -- at what -- what power would you have done the 12 verification? 13 A. Whatever was necessary. I don't recall what 14 I did -- what I used specifically, but sometimes you can 15 go as low as 10, go up to 20 but don't go -- we're 16 trained not to go to more than 30. 17 Q. You were trained not to do that? 18 A. Correct. 19 Q. And what -- is that currently the practice 20 at ISP or when you retired? 21 A. I believe so. You know, it's, like -- you 22 know, and let me -- here's my visual for you: You know, 23 what do you see -- what do you see when it's at 30, as 24 opposed to what do you see when it's at 70? You know</p>

Conducted on October 2, 2020

<p style="text-align: right;">207</p> <p>1 what I'm saying? You know, it's, like -- it just 2 bleaches it out. It doesn't show you the detail that you 3 need. You know, 30 versus -- versus 50 or 70, what do 4 you see? It's just common sense. 5 Q. And you're indicating, just for the record, 6 you're -- you have your hand out, like -- 7 A. I have my hand out at 30, and I had my hand 8 pressed to my face at the higher magnification. 9 Q. Okay. Do you have any reason to think based 10 on the descriptions of the containers, of that film 11 containers and such things in this case, do you have any 12 reason to believe that the items weren't stored properly? 13 A. No, I have no reason to believe that they 14 were -- that they were not stored properly. They were 15 stored properly. 16 Q. And you have no reason to believe that they 17 were handled improperly, correct? 18 A. That's correct. 19 Q. Okay. So are you -- are you aware -- do you 20 recall hearing over the years that Mr. Pursley claimed 21 that this gun was misidentified? 22 A. No, I'm not aware of any of that. 23 Q. You haven't heard that over the years? 24 A. No.</p>	<p style="text-align: right;">209</p> <p>1 and two evidence cartridge cases? 2 A. No. I'm not aware. 3 Q. Okay. So you are also not aware of that 4 Mr. Welty notified Rockford Police Department that based 5 on his review of the cartridge cases, he thought they 6 were fired from an Astra, Beretta, or Taurus, but most 7 likely a Taurus? 8 A. No, I'm not aware of that. 9 Q. And you weren't aware that he didn't create 10 any case notes or worksheets or a report related to that? 11 A. No. I'm not aware of that. 12 Q. Are you aware that he gave testimony in 13 court at the trial against Mr. Pursley based on that -- 14 that examination that he did? 15 A. No, I'm not aware of that. The preliminary 16 stuff, you don't -- when I heard people do that, they 17 don't give that in regard to cartridge cases. They do 18 about fired bullets, so -- 19 Q. Well, it was fired -- fired -- it was 20 recovered bullets and cartridge cases. 21 A. Oh -- 22 Q. Yeah. 23 A. Oh, you said "cartridge cases". 24 Q. Oh, yeah. I'm sorry. I meant both, the</p>
<p style="text-align: right;">208</p> <p>1 Q. What do you know about Mr. Pursley's claim 2 of innocence? 3 A. Nothing. 4 Q. So you are not aware that he was acquitted 5 after a retrial? 6 A. I think there was some scuttlebutt about 7 that, but that -- that's about it. 8 Q. What do you mean by "scuttlebutt"? 9 A. I -- you know, just, like, people talking, 10 as far as cases and stuff go, hearsay. 11 Q. Where would you have heard about it? 12 A. I don't recall. 13 Q. Would you have talked about it with 14 Dan Gunnell at all? 15 A. I'm sorry? 16 Q. Would you have talked about it with 17 Mr. Gunnell at all? 18 A. No. 19 Q. You weren't called to testify in this case, 20 correct? 21 A. No, I was not. 22 Q. Are you aware that Jack Welty, when he had 23 the questioned evidence in June 1993, that he conducted a 24 preliminary identification of the two evidence bullets</p>	<p style="text-align: right;">210</p> <p>1 fired bullets -- 2 A. No, I'm not aware of it. 3 (Whereupon, Exhibit Number 3 was marked 4 for identification.) 5 BY MS. TINGSTAD: 6 Q. Okay. I'm going to mark as Exhibit 3 what's 7 been -- what's Bates labeled ISP Defendants 1517. It's 8 an email chain. 9 (Whereupon, the proceedings went off the 10 record at 1:50 p.m. through 1:54 p.m.) 11 BY MS. TINGSTAD: 12 Q. Okay. So have you had a chance to look at 13 this, Mr. Striupaitis? 14 A. Yes, ma'am, I did. 15 Q. Okay. I'll represent that this is -- I want 16 to mark this as Exhibit 3, and it is ISP Defendants 1517 17 and 1518. It's an email chain dated October 12th, 2012. 18 On the second page here of the email, this 19 is a summary -- actually, from the first to the second 20 page. It kind of runs to the second page. 21 It's a table of the results of different 22 defense experts' reports and photographs of the -- of the 23 evidence in the Pursley forensic ballistics evidence in 24 the Pursley matter, and it lists Dan Gunnell's report,</p>

Conducted on October 2, 2020

<p style="text-align: right;">211</p> <p>1 Rusty McClain's notes and John Murdock's report, if you 2 see that. That's sort of the top of this table. Do you 3 see that, Mr. Striupaitis?</p> <p>4 A. Yes, I do.</p> <p>5 Q. And then on the second page, it indicates in 6 the Dan Gunnell column that the verifications were by 7 Pete Striupaitis. Do you see that?</p> <p>8 A. Mm-hmm.</p> <p>9 Q. Okay. The second column indicates that 10 Rusty McClain -- do you know who Rusty McClain is?</p> <p>11 A. I do.</p> <p>12 Q. How do you know Mr. McClain?</p> <p>13 A. He's a firearm examiner that was working -- 14 worked in Rockford.</p> <p>15 Q. How long have you known Mr. McClain?</p> <p>16 A. Probably as long as he was an examiner, and 17 now he's retired.</p> <p>18 Q. So a long time, 20, 30 years?</p> <p>19 A. Yeah, something -- yeah, I believe that 20 would be accurate, yeah.</p> <p>21 Q. Have you ever spoken with him about this 22 matter, about this case?</p> <p>23 A. No, I have not.</p> <p>24 Q. Were you aware that he -- that he had any</p>	<p style="text-align: right;">213</p> <p>1 A. No, I did not.</p> <p>2 Q. Okay. In this fourth column or third 3 column, this is Mr. Murdock's results or -- from the 4 examination for. Exhibit 1, which Mr. Gunnell found 5 unsuitable -- he found it to be suitable, and he said 6 it's not fired in -- in the Taurus firearm in its present 7 condition. Exhibit 2 --</p> <p>8 A. Did McClain have any --</p> <p>9 Q. What's that?</p> <p>10 A. Did McClain have anything to say about that 11 item?</p> <p>12 Q. He didn't have anything to say about it. I 13 can tell you why. It's because Mr. McClain actually 14 entered the bullets and the exhibits 2, 3, and 4, bullets 15 and cartridge cases, he entered those in the IBIS system.</p> <p>16 A. Oh, okay.</p> <p>17 Q. Yeah. And he actually entered them twice. 18 And during that entry process, he took a look under the 19 microscope and made some notes.</p> <p>20 A. Okay. But he didn't say anything about the 21 bullet fragment?</p> <p>22 Q. No. I don't think he was looking at it. He 23 wasn't entering that into IBIS.</p> <p>24 A. Okay.</p>
<p style="text-align: right;">212</p> <p>1 role or any part in this case?</p> <p>2 A. No, I had no idea.</p> <p>3 Q. Okay. So this second column indicates that 4 he took notes, and it says for exhibit 2, the two fired 5 cartridge cases, he agreed with the identification. 6 Exhibit 3, the fired -- one of the fired bullets, he 7 could -- he had an inconclusive on that. And exhibit -- 8 it says "exhibit 3", but I think that's supposed to be 9 exhibit 4 in the last -- well, in this column, it says 10 "conclusive". He agreed with that fired bullet.</p> <p>11 A. Mm-hmm.</p> <p>12 Q. And then in the fourth column, are you aware 13 that John Murdock conducted an examination of the 14 evidence in this case?</p> <p>15 A. I became aware of it by virtue of getting 16 that package at the first deposition, and there was a 17 file that was there with his name on it, but once the 18 deposition stopped, I packaged -- packaged everything up 19 and sent it back.</p> <p>20 Q. Did you read Mr. Murdock's report or look at 21 any of his case notes?</p> <p>22 A. No, I -- no, I did not.</p> <p>23 Q. Okay. So you didn't look at any of the 24 photographs from his report either?</p>	<p style="text-align: right;">214</p> <p>1 Q. So, no. That -- that was not part of his 2 notes.</p> <p>3 Would it surprise you to learn that Mr. -- 4 Mr. McClain entered the test firings from the Taurus 9 -- 5 the Taurus, exhibit 9, and all of these questioned 6 bullets and cartridge cases into IBIS to -- and ran it 7 two times?</p> <p>8 A. That would --</p> <p>9 Q. Is that --</p> <p>10 A. That would not surprise me because there's a 11 lot of work involved with the -- with the fired bullets.</p> <p>12 Q. And would it surprise you that IBIS returned 13 no -- no matches whatsoever between the test fires and 14 the fired bullets and cartridge cases, not high 15 confidence, not low confidence, nothing? Would that 16 surprise you?</p> <p>17 A. No. He says that exhibit 4, he agreed with 18 the identification so --</p> <p>19 Q. That --</p> <p>20 A. -- it's --</p> <p>21 Q. That's -- that's his -- that's his view 22 under the microscope.</p> <p>23 A. Oh, okay. I see.</p> <p>24 Q. That's not coming out of the IBIS program.</p>

Conducted on October 2, 2020

<p style="text-align: right;">215</p> <p>1 A. Okay. So the -- the digital imagery versus 2 looking under the scope itself, okay. All right. 3 Thanks. 4 Q. Mm-hmm. 5 Would it surprise you to learn that 6 Mr. McClain entered this all into IBIS, and it did not 7 correlate the evidence and the tests at all? 8 MR. IASPARRO: This is Michael Iasparro. 9 I object to form and misstates the evidence. 10 MS. TINGSTAD: Well, I -- we don't -- I 11 didn't -- I don't have the -- I don't have the 12 IBIS conclusions with me right now, although I 13 can pull up the transcript. 14 BY MS. TINGSTAD: 15 Q. But, you know, you can answer, if you -- 16 A. Well, automation versus the eyeball, I 17 really -- am I surprised? No. Does it happen? Yes. I 18 don't know. 19 And then you can make your conclusion by 20 looking through the comparison microscope. 21 Q. Right. Right. 22 But you said earlier that you would expect 23 if two -- if two bullets, if they were the same 24 manufacturer were fired from the same gun, IBIS would</p>	<p style="text-align: right;">217</p> <p>1 evidence; however, there are no reports or case notes in 2 the file. We don't know if he did examine the evidence." 3 Do you agree that it is a potential problem 4 that Jack Welty didn't document this examination or his 5 conclusions? 6 MR. IASPARRO: Object to form and 7 foundation. 8 BY MS. TINGSTAD: 9 Q. Would you agree with the writer of this 10 report or this email, Joanne McIntyre, that it's a 11 problem that Mr. Welty didn't document in his 12 examination? 13 MR. IASPARRO: Object to form and 14 foundation. 15 BY MS. TINGSTAD: 16 Q. You can answer. 17 MR. BHAVE: I would also object to the 18 incomplete hypothetical. 19 MS. TINGSTAD: It's not a hypothetical. 20 THE WITNESS: So you want me to answer 21 that? 22 BY MS. TINGSTAD: 23 Q. Yes. 24 A. It's a potential problem, but when you do</p>
<p style="text-align: right;">216</p> <p>1 probably come up with at least -- would probably come up 2 with a high-confidence match. You said that earlier, 3 right? 4 THE WITNESS: One would like to think -- 5 one would like to think, yes. 6 BY MS. TINGSTAD: 7 Q. Okay. 8 A. Whether -- whether it does or not, that's a 9 machine. 10 Q. Okay. If we take a look under -- underneath 11 this table at "potential problems", and you see the 12 language that says "potential problems"? 13 A. Mm-hmm. Is that -- 14 Q. It says "Murdock's" -- go ahead. 15 A. No -- yes, I do. I see what you're saying. 16 Go ahead. 17 Q. Okay. So if for number 1, it says, 18 "Murdock's report indicates the transcripts of the 19 Pursley trial reference Jack Welty as identifying the two 20 fired cartridge cases from the Ascher scene with each 21 other, and subsequently with the test firings from the 22 Taurus pistol. No case notes or lab report was -- from 23 Welty for review. This is true. We have the master 24 file. Welty is in the chain of custody for the above</p>	<p style="text-align: right;">218</p> <p>1 the preliminarily -- the preliminaries, as we discussed 2 early, they are informal, and sure, he didn't document 3 it, and I really don't have anything else to say about 4 it. 5 Q. Have you ever testified in court about a 6 forensic examination you've done that was informal? 7 A. No. 8 Q. To testify in court, do you always have the 9 formal documentation done? 10 A. Yes. I might -- I don't even recall doing 11 informals to be -- no. 12 Q. For number 2 -- 13 A. Let's see. Missing -- there is a latent 14 print report it says, right? 15 Q. Mm-hmm. We do have the report. "Jim Titone 16 searched for the notes in the correct archive boxes, was 17 -- was unable to find them. Jim also searched other case 18 numbers in which the numbers could've been transposed." 19 You -- you suggested earlier -- you 20 speculated earlier that the -- 21 A. That it went to latents first. 22 Q. That it went to latent prints? 23 A. Right. 24 Q. Do you agree that it's a problem if there</p>

Conducted on October 2, 2020

<p>219</p> <p>1 were no case notes in latent prints?</p> <p>2 MR. IASPARRO: I object to form and</p> <p>3 foundation.</p> <p>4 BY MS. TINGSTAD:</p> <p>5 Q. You can answer.</p> <p>6 A. Yeah, there should be.</p> <p>7 BY MS. TINGSTAD:</p> <p>8 Q. And just to clarify, you would agree that if</p> <p>9 a forensic examiner gives testimony in court, there</p> <p>10 should be a report in case notes that are done?</p> <p>11 MR. IASPARRO: Objection; lack of</p> <p>12 foundation.</p> <p>13 BY MS. TINGSTAD:</p> <p>14 Q. You can answer.</p> <p>15 A. Yeah, there should be.</p> <p>16 Q. Okay. Okay. Thank you. That was Exhibit</p> <p>17 3.</p> <p>18 MS. TINGSTAD: Let's take a five-minute</p> <p>19 break. Does that -- does that work for</p> <p>20 everybody?</p> <p>21 ALL COUNSEL: Yes.</p> <p>22 (Whereupon, the proceedings went off the</p> <p>23 record at 2:06 p.m. through 2:31 p.m.)</p> <p>24 BY MS. TINGSTAD:</p>	<p>221</p> <p>1 and they wanted, you know, either a photomicrograph and a</p> <p>2 sketch. Maybe it was because of that. I don't -- I</p> <p>3 don't recall.</p> <p>4 Q. Why would that -- why is that kind of detail</p> <p>5 documentation important?</p> <p>6 A. That would -- for me, it would be maybe for</p> <p>7 my -- better for my recollection. You know, I don't</p> <p>8 know. You know, I don't really have a good answer for</p> <p>9 you in regard to that.</p> <p>10 Like I say, there's minimum standards, and</p> <p>11 then you can do more. But I think Dan did minimum, and I</p> <p>12 did more.</p> <p>13 Q. So would you agree with me that the</p> <p>14 accreditation standard of a detailed sketch or photo was</p> <p>15 the best practice?</p> <p>16 A. A detailed sketch? Is that -- no, I</p> <p>17 wouldn't agree with you, no.</p> <p>18 Q. No, okay.</p> <p>19 A. Any -- I think any sketch would do. That</p> <p>20 was the third thing. A photomicrograph, a sketch, or a</p> <p>21 narrative. So if you were verbal or both, then you could</p> <p>22 write a narrative as to what you saw.</p> <p>23 Q. Is the level of documentation that you would</p> <p>24 have made more detailed than this, would -- would you</p>
<p>220</p> <p>1 Q. So, Mr. Striupaitis, I think we were in</p> <p>2 Exhibit 2 that we marked -- the document we marked for --</p> <p>3 as Exhibit 2, Mr. Gunnell's report.</p> <p>4 A. We've done that already.</p> <p>5 Q. We have, yeah. We have done that already.</p> <p>6 I just want to ask you a few follow-up questions about</p> <p>7 that. Yeah.</p> <p>8 You mentioned when we were -- when I was</p> <p>9 asking you questions about this report, you -- you</p> <p>10 mentioned in your testimony that you would've included</p> <p>11 more detail on the diagram of the cartridge cases 2-A and</p> <p>12 2-B. Do you remember that?</p> <p>13 A. Yes, I do.</p> <p>14 Q. Okay. Were there any policies at ISP about</p> <p>15 the level of detail that should go into laboratory</p> <p>16 worksheets?</p> <p>17 A. I believe they were. To the best of my</p> <p>18 knowledge, there were, like, minimum standards, and if</p> <p>19 you did the minimum, it was okay, and if you did more, it</p> <p>20 was okay. So I just did a little bit more because it was</p> <p>21 just -- just me.</p> <p>22 Q. Did you -- did you attend any trainings that</p> <p>23 -- that caused you to do more? Were they --</p> <p>24 A. Because -- because it was our accreditation,</p>	<p>222</p> <p>1 call that to be best practices?</p> <p>2 A. I would call it my practices. I don't know</p> <p>3 if it's best practices.</p> <p>4 Q. But you practice -- your level of practice</p> <p>5 was higher than the minimum standard, in your opinion?</p> <p>6 A. I -- I wouldn't say that. It was just</p> <p>7 something that I did. You know, you did -- we're</p> <p>8 creatures of habit.</p> <p>9 Q. Would you say that the report that we're --</p> <p>10 that we're looking at here with these sketches,</p> <p>11 Mr. Gunnell's report, would you say that they met the</p> <p>12 minimum standard?</p> <p>13 A. I believe so, yes.</p> <p>14 Q. Would you say that this report fell below</p> <p>15 the accreditation standard?</p> <p>16 A. No.</p> <p>17 Q. All right. Let me close my door.</p> <p>18 In your view, this report would satisfy the</p> <p>19 requirement for a photo, sketch, or narrative, your</p> <p>20 accreditation requirement?</p> <p>21 A. The -- it's the -- it's the worksheets. Do</p> <p>22 they beat the minimum requirement? Yes. And the -- and</p> <p>23 the report certainly does, yes.</p> <p>24 Q. How is the -- when we're talking about</p>

Conducted on October 2, 2020

<p>223</p> <p>1 accreditation, what -- what accrediting body are we 2 talking about?</p> <p>3 A. At the time, it was either the Association 4 of Crime Lab Directors Laboratory Accreditation Board.</p> <p>5 Q. And is that --</p> <p>6 A. I don't think they -- they're no longer in 7 existence. They're going on through some kind of ISO -- 8 17025, something or other. So I don't -- I don't know. 9 I've been out of the loop, so to speak.</p> <p>10 Q. So would this accrediting body that you 11 mentioned, the crime lab --</p> <p>12 A. Accreditation board.</p> <p>13 Q. -- accreditation board, would you -- was the 14 Broadview branch lab accredited in 1993?</p> <p>15 A. Yes.</p> <p>16 Q. So it would have been following both the 17 minimum standards of ISP and the requirements of the 18 accreditation board?</p> <p>19 A. Yes.</p> <p>20 Q. And you said that -- you just said that the 21 report itself would meet the standard of the 22 accreditation board. When you say that --</p> <p>23 A. It's --</p> <p>24 Q. -- are you referring to the two-page report?</p>	<p>225</p> <p>1 think. I know.</p> <p>2 The Illinois State Police Bureau of Forensic 3 Sciences was the first lab system in the country to get 4 ASCLD Lab accreditation, Association of Crime Lab 5 Directors Laboratory Accreditation Board.</p> <p>6 Q. You just mentioned that the ISP minimum 7 standards and the ASCLD accreditation standards are not 8 mutually exclusive. Is one a higher -- does one impose a 9 higher standard than the other?</p> <p>10 A. One would -- one would mimic the other. 11 It's -- it's whatever ASCLD has, it's incorporated by the 12 Illinois State Police because they were the first lab 13 system -- excuse me, by the Bureau of Forensic Sciences 14 because they were the first ones to be accredited by the 15 body. So you adhere to that, and that's why you get the 16 accreditation, and that was done when we were still -- 17 when I was still at Maywood.</p> <p>18 Q. So that was done prior to '92, '93?</p> <p>19 A. I -- it was -- I think it was done in -- in 20 the -- in the '80s.</p> <p>21 Q. And it's your understanding, you said, that 22 they would be one in the same. So is your understanding 23 that the accreditation standards would have been 24 reflected in the ISP standards?</p>
<p>224</p> <p>1 A. I'm sorry. Go ahead.</p> <p>2 Q. Are you referring to the two pages --</p> <p>3 A. Yes.</p> <p>4 Q. -- that are in front? Okay.</p> <p>5 And you're referring to the findings that 6 just say -- that say, "These items were fired in exhibit 7 9"?</p> <p>8 A. Yes.</p> <p>9 Q. This report doesn't come with any photos or 10 sketches or detailed narrative, does it?</p> <p>11 A. No. The reports don't, but the worksheets 12 do, and the worksheets are minimum standard -- meet 13 minimum standards.</p> <p>14 Q. Okay. So the worksheets are part of the 15 report, and they meet minimum standards?</p> <p>16 A. Correct.</p> <p>17 Q. And that would be the ISP minimum standards, 18 correct?</p> <p>19 A. And also, since they're accredited by ASCLD 20 LAB, also theirs, too.</p> <p>21 Q. So in your view --</p> <p>22 A. It was not mutually exclusive --</p> <p>23 Q. Okay.</p> <p>24 A. -- that the -- I mean, I think -- I don't</p>	<p>226</p> <p>1 A. Yes, that's correct.</p> <p>2 Q. The ISP standards at the time didn't require 3 a photograph or a sketch or a narrative, did they?</p> <p>4 A. No, they did. As I indicated earlier, it 5 was like either a sketch, a narrative, or a 6 photomicrograph. We opted to not have photomicrographs 7 because we didn't want them -- to have anybody view them 8 and think that they can, you know, they'll see areas of 9 agreement, and they'll see areas of disagreement. We 10 didn't want to confuse the issue. So we -- we didn't 11 want narratives, so we close the sketch.</p> <p>12 Q. So -- but the purpose of this sketch was to 13 provide some level of detail, correct?</p> <p>14 A. It was to provide some level of recollection 15 and what you did in the -- in the particular case.</p> <p>16 Q. So the purpose of the sketch was really to 17 remind -- your testimony is that it was to remind the 18 examiner about what they looked at?</p> <p>19 A. Yes, ma'am, that's correct.</p> <p>20 Q. So this sketch of 2-A and 2-B by Mr. Gunnell 21 would remind him that -- of the letters that were on the 22 outside of the breech-trace or of the -- of the cartridge 23 case?</p> <p>24 MR. BHAVE: Objection; foundation and</p>

Conducted on October 2, 2020

<p>227</p> <p>1 speculation.</p> <p>2 BY MS. TINGSTAD:</p> <p>3 Q. I'm looking at the -- I'm still looking at</p> <p>4 this Pursley 100005, which is the laboratory worksheet</p> <p>5 showing this -- Mr. Gunnell's sketches of 2-A and 2-B.</p> <p>6 And my question for you is: What -- what --</p> <p>7 what would these sketches convey to anyone? What</p> <p>8 information do they convey?</p> <p>9 MR. BHAVE: Objection; speculation.</p> <p>10 MR. IASPARRO: And form, Michael</p> <p>11 Iasparro.</p> <p>12 BY MS. TINGSTAD:</p> <p>13 Q. Okay. You can answer, and to -- and to make</p> <p>14 clear, I understand that the identification is based on</p> <p>15 individual characteristics. So what individual</p> <p>16 characteristics are conveyed on these sketches?</p> <p>17 A. There -- these are -- these are conveyed --</p> <p>18 these are not to convey individual characteristics.</p> <p>19 They're to convey minimum standards as far as</p> <p>20 documentation as to what the evidence looked like. I</p> <p>21 mean, some of us are more artistic than others. And I am</p> <p>22 certainly not going to be putting in individual</p> <p>23 characteristics on a sketch, you know. And if you put</p> <p>24 down something, you're meeting the -- the minimum</p>	<p>229</p> <p>1 A. Yes, that's correct.</p> <p>2 Q. But no documentation as to even the class</p> <p>3 characteristics that you mentioned with regard to breech</p> <p>4 tracemarks, whether they were hatched or stippled or you</p> <p>5 -- you talked about those being class characteristics,</p> <p>6 the tracemarks --</p> <p>7 A. I don't recall what the -- what the minimum</p> <p>8 standards were, you know, but I would -- I would -- you</p> <p>9 know, with him being newly trained, I would -- I would</p> <p>10 say that he met minimum standards.</p> <p>11 Q. Okay. So you don't recall right now what</p> <p>12 the minimum standards were?</p> <p>13 A. No, I do not. No, I do not.</p> <p>14 Q. So you -- you -- you're not testifying right</p> <p>15 now that he met the minimum standards by this sketch,</p> <p>16 correct?</p> <p>17 A. No, I'm not.</p> <p>18 Q. Your testimony is that because Mr. Gunnell</p> <p>19 had a year of experience, that he must've been meeting</p> <p>20 the -- the minimum standards?</p> <p>21 MR. BHAVE: Objection --</p> <p>22 BY MS. TINGSTAD:</p> <p>23 Q. Is that what --</p> <p>24 MR. BHAVE: Objection; mischaracterizes</p>
<p>228</p> <p>1 standards.</p> <p>2 Q. So minimum standards just require that you</p> <p>3 put down something?</p> <p>4 A. That -- that there's a reflection of what</p> <p>5 you saw as far as the evidence that was received.</p> <p>6 Q. And is there a reflection of what you saw</p> <p>7 with regard to what led you to make an identification?</p> <p>8 A. No. It's what I saw through the microscope</p> <p>9 that led me to make an identification.</p> <p>10 Q. Right. So would your sketch be a reflection</p> <p>11 of --</p> <p>12 A. No.</p> <p>13 Q. -- what you saw in the microscope?</p> <p>14 A. No.</p> <p>15 Q. So the sketch is just -- is a sketch of</p> <p>16 what?</p> <p>17 A. Just documentation as far as what -- what</p> <p>18 that item looked like.</p> <p>19 Q. For example, documentation of the color of</p> <p>20 the -- of the cartridge case? Is that -- is that one of</p> <p>21 the things?</p> <p>22 A. Yes.</p> <p>23 Q. Okay. And the letters or numbers that are</p> <p>24 stamped on the outside of it?</p>	<p>230</p> <p>1 testimony.</p> <p>2 MS. TINGSTAD: Okay.</p> <p>3 THE WITNESS: Based on being a</p> <p>4 newly-trained individual, I would -- one would</p> <p>5 retain more as far as being newly trained. That</p> <p>6 -- that's my opinion.</p> <p>7 BY MS. TINGSTAD:</p> <p>8 Q. So your opinion is that Mr. Gunnell, having</p> <p>9 been newly trained, would've been aware of the -- of the</p> <p>10 minimum requirements or the minimum standards, correct?</p> <p>11 MR. IASPARRO: Michael Iasparro, object</p> <p>12 to form and foundation.</p> <p>13 BY MS. TINGSTAD:</p> <p>14 Q. You can answer.</p> <p>15 A. Yeah, yeah. He would be aware.</p> <p>16 Q. And you -- and then you -- your testimony is</p> <p>17 that you would further assume that because Mr. Gunnell</p> <p>18 was aware of the minimum standards, that he would -- that</p> <p>19 this particular worksheet must meet the minimum standards</p> <p>20 based on his awareness of it?</p> <p>21 MR. IASPARRO: Form and foundation,</p> <p>22 Michael Iasparro.</p> <p>23 BY MS. TINGSTAD:</p> <p>24 Q. You can answer.</p>

Conducted on October 2, 2020

<p>231</p> <p>1 A. Yes.</p> <p>2 Q. Okay. But as you sit here today, you can't</p> <p>3 give -- you can't give me an opinion as a former lab</p> <p>4 director that this report met the minimum standards, as</p> <p>5 you sit here today?</p> <p>6 MR. BHAVE: Objection; assumes facts not</p> <p>7 in evidence.</p> <p>8 MR. IASPARRO: And foundation.</p> <p>9 BY MS. TINGSTAD:</p> <p>10 Q. You can answer.</p> <p>11 A. The report met minimum standards, and the --</p> <p>12 and the worksheets met minimum standards from what I</p> <p>13 recall.</p> <p>14 Q. From what you recall.</p> <p>15 A. Yes.</p> <p>16 Q. But you don't recall -- you don't recall</p> <p>17 what the minimum standards are, correct?</p> <p>18 A. Yeah. That was 1993. So there's -- there's</p> <p>19 things that I forgot this morning.</p> <p>20 Q. Okay. You mentioned, Mr. Striupaitis, that</p> <p>21 you knew Dan Gunnell for a long time?</p> <p>22 A. Yes, ma'am.</p> <p>23 Q. Okay. Would you consider Mr. Gunnell a</p> <p>24 friend?</p>	<p>233</p> <p>1 Q. And when did you meet Mr. Gunnell's father?</p> <p>2 What was his name?</p> <p>3 A. Don Gunnell.</p> <p>4 Q. Don Gunnell. When did you meet Don Gunnell?</p> <p>5 A. February 1995.</p> <p>6 Q. Oh, wow. That's a great memory. What</p> <p>7 happened in February 1995?</p> <p>8 A. I joined the Chicago Police Department as a</p> <p>9 criminalistics aide in their firearms section.</p> <p>10 Q. That was -- was that 1985, not '95?</p> <p>11 A. Actually -- no, I'm sorry. It was 1975.</p> <p>12 Q. 1975, okay. Yeah.</p> <p>13 So in February 1975, that's when you joined</p> <p>14 the Chicago Police Department as your -- as the</p> <p>15 criminalistics aide, and that was the beginning of your</p> <p>16 forensic science career, correct?</p> <p>17 A. That was certainly -- I didn't realize it at</p> <p>18 the time, but it developed into that, yes.</p> <p>19 Q. So you met -- you knew -- you knew Don</p> <p>20 Gunnell from day one of your career in criminal --</p> <p>21 criminalistics?</p> <p>22 A. Yes, ma'am.</p> <p>23 Q. Okay. And did -- what did you know of</p> <p>24 Don Gunnell of his -- of his reputation?</p>
<p>232</p> <p>1 A. Yes.</p> <p>2 Q. Have you socialized with him outside of</p> <p>3 work?</p> <p>4 A. Just at -- just at -- at the AOFTE seminar</p> <p>5 because there's, like, activities that go on at the</p> <p>6 seminar, and we're both past AOFTE presidents.</p> <p>7 Q. Did you ever go out for drinks with him or</p> <p>8 dinner or socialize otherwise?</p> <p>9 A. Possibly at the seminar, but not -- not at</p> <p>10 any other time to the best of my recollection. You know,</p> <p>11 we belong to the same organization. He was on the Board</p> <p>12 of Directors and the president. I was on the Board of</p> <p>13 Directors. You get to know the people in the</p> <p>14 organization.</p> <p>15 Q. And also from working in the same lab,</p> <p>16 correct?</p> <p>17 A. Yeah. And -- and we worked in the same lab.</p> <p>18 I mean, I believe we went out to lunch, you know, things</p> <p>19 like that, yes, absolutely.</p> <p>20 Q. Do you know Mr. Gunnell's family?</p> <p>21 A. Yes, I do.</p> <p>22 Q. And who did you know in his family?</p> <p>23 A. I knew his father. He worked at the Chicago</p> <p>24 Police Department.</p>	<p>234</p> <p>1 A. Upstanding guy, worked as a firearms</p> <p>2 technician, examiner, and good family guy, and, you know,</p> <p>3 working with him on a daily basis. Didn't socialize with</p> <p>4 him or anything like that. It was a -- it was a work</p> <p>5 relationship.</p> <p>6 Q. Did you look up to him?</p> <p>7 A. Yeah. There was -- there were ten</p> <p>8 examiners, and some of them were like my -- were father</p> <p>9 figures.</p> <p>10 Q. Would you describe Don Gunnell as a father</p> <p>11 figure?</p> <p>12 A. No, but an individual who was -- who I</p> <p>13 admired.</p> <p>14 Q. Did you have occasion to continue to</p> <p>15 interact with Don Gunnell when you were a forensic</p> <p>16 examiner?</p> <p>17 A. Yeah, because he retired from there, and he</p> <p>18 came onboard to work with the Illinois State Police.</p> <p>19 Q. Was Don Gunnell working for the State Police</p> <p>20 at the same time that Dan Gunnell was?</p> <p>21 A. Yes.</p> <p>22 Q. And you knew them to be father and son?</p> <p>23 A. Yes.</p> <p>24 Q. Was Don Gunnell a hunter?</p>

Conducted on October 2, 2020

<p>235</p> <p>1 A. I don't know. He -- he passed away some 2 years back. I don't -- I don't believe so. 3 Q. Okay. Did you know an examiner by the name 4 of Boese? 5 A. I'm sorry? 6 MR. HUOTARI: I'm not sure if the court 7 reporter caught that, but it was breaking up on 8 my end. Could you repeat -- 9 MS. TINGSTAD: Yeah. It just broke up 10 for me, too. 11 THE STENOGRAPHIC REPORTER: "Examiner by 12 the name of Boese." Can you spell Boese? 13 MS. TINGSTAD: B-o-e-s-e. 14 THE STENOGRAPHIC REPORTER: Thank you. 15 BY MS. TINGSTAD: 16 Q. Or Boese? I don't know how you say it. 17 A. I knew of a Boese at the Chicago laboratory, 18 and I believe he was his father. 19 Q. Okay. So at the Chicago Police, there was a 20 Boese. Was he there -- was he also a forensic examiner? 21 A. He was a drug chemist. 22 Q. A drug chemist. And he -- was he there at 23 the same time that Don Gunnell was there? 24 A. Yes.</p>	<p>237</p> <p>1 ever asked to give a preliminary examination like that? 2 A. Not to the best of my knowledge, no. 3 Q. Okay. So you don't recall ever giving one? 4 A. No, I don't recall. 5 Q. Do you recall ever being asked to give one 6 by law enforcement? 7 A. No. 8 Q. Okay. You did mention that -- when I was 9 asking you about preliminary examinations, you mentioned 10 that you heard of people giving them? 11 A. Yes. 12 Q. Can you give me an example of one of the 13 times you heard of that? 14 A. That individual I mentioned before that I 15 gave you that's on the record, Robert Shem in Alaska. 16 Q. Anybody else? 17 A. S-h-e-m. No. 18 Q. Just -- just that case of Robert Shem? 19 A. Right. 20 Q. So you can't give me any other examples 21 beyond that one of Robert Shem in Alaska? 22 MR. BHAVE: Objection; asked and 23 answered. 24 THE WITNESS: No.</p>
<p>236</p> <p>1 Q. So they were both more senior figures in the 2 forensic community when you started? 3 A. That's correct. 4 Q. Okay. And then your understanding was that 5 Mr. Boese's son became a firearms examiner? 6 A. Yeah, but I didn't -- I didn't know anything 7 about him. 8 Q. You didn't know anything about him? 9 A. No. 10 Q. Do you know whether he and Mr. Gunnell and 11 you were contemporaries or that -- he was a contemporary 12 with you and Mr. Gunnell? 13 A. No, I don't. Like I say, I don't know 14 anything about him. I know he was a firearms examiner, 15 but that was it. 16 Q. Did he work for the Illinois State Police as 17 well, the younger Mr. Boese? 18 A. I don't believe so. 19 Q. Are you aware that he had any involvement in 20 this case? 21 A. No. 22 Q. We talked a lot today about the preliminary 23 exams of -- of evidence, fired bullet and cartridge case 24 evidence before a gun has been identified. And were you</p>	<p>238</p> <p>1 BY MS. TINGSTAD: 2 Q. Okay. When you mentioned the Robert Shem 3 case, you indicated that Mr. Shem worked at the -- worked 4 as a forensic examiner for 30 years, and that "He was 5 good to his agencies, and they were good to him." Do you 6 recall saying that? 7 A. Yes, I do. 8 Q. And you also said that the management didn't 9 like that, and that's what led to him leaving, correct? 10 A. Yes. 11 Q. What does it mean for a firearm -- let me 12 start first. When you talk about "agencies", being good 13 to his agencies, are you referring to police departments? 14 A. Yeah. I'm referring to police -- I'm 15 referring to -- having a good rapport with the police 16 agencies. 17 Q. Okay. So what does it mean for a firearm 18 forensic scientist to be good to a police department? 19 A. Just to be friendly when the evidence is 20 submitted. 21 Q. And what does it mean for an agency to be 22 good to the forensic examiner? 23 A. I don't know if I know the answer to that. 24 Be on time, be friendly in court before you go testify or</p>

Conducted on October 2, 2020

<p style="text-align: right;">239</p> <p>1 something like that.</p> <p>2 Q. Why would just being friendly when evidence</p> <p>3 is submitted and being on time, why would that lead --</p> <p>4 why would management not like that?</p> <p>5 A. So you're talking in regard to Shem, as far</p> <p>6 as management liking him? I think --</p> <p>7 Q. Correct.</p> <p>8 A. Yeah, I don't -- I don't know.</p> <p>9 Q. Does being good to a police -- to a -- to</p> <p>10 the police department include giving preliminary opinions</p> <p>11 in an informal way?</p> <p>12 MR. BHAVE: Objection; form.</p> <p>13 MR. IASPARRO: I join. Michael</p> <p>14 Iasparro.</p> <p>15 THE WITNESS: Yeah, Shem gave them a</p> <p>16 preliminary.</p> <p>17 BY MS. TINGSTAD:</p> <p>18 Q. Without writing it up?</p> <p>19 A. It was -- it was a weekend, and they wanted</p> <p>20 to work on the case, and it -- it helped in that regard.</p> <p>21 Q. They wanted -- was it -- was his opinion</p> <p>22 used to -- are you aware of his opinion being used to</p> <p>23 obtain a warrant?</p> <p>24 A. Yes.</p>	<p style="text-align: right;">241</p> <p>1 A. Yeah.</p> <p>2 Q. Do you recall that?</p> <p>3 A. Yeah.</p> <p>4 Q. Do you have any examples of an occasion</p> <p>5 where a forensic examiner started examining evidence, but</p> <p>6 then went on vacation and somebody else finished it?</p> <p>7 A. No, I don't.</p> <p>8 Q. You can't recall any examples of that?</p> <p>9 A. No, I don't recall.</p> <p>10 Q. And you can't recall any examples of an</p> <p>11 examiner starting to analyze evidence but not finishing</p> <p>12 it because the lab was backlogged?</p> <p>13 A. No, I don't recall.</p> <p>14 Q. Can you think of any other examples in your</p> <p>15 30-year career with ISP where an examiner began to</p> <p>16 analyze the evidence but didn't finish it?</p> <p>17 A. No, I -- I don't recall.</p> <p>18 Q. Mr. Striupaitis, you're -- you're now aware</p> <p>19 that John Murdock conducted an examination of the</p> <p>20 evidence, the Taurus and the fired bullet evidence, from</p> <p>21 1993 and rendered an opinion of an elimination for the</p> <p>22 bullets and the shell casings?</p> <p>23 A. Yes.</p> <p>24 Q. Given Mr. Murdock's -- given Mr. Murdock's</p>
<p style="text-align: right;">240</p> <p>1 MR. IASPARRO: Ashley, are we still</p> <p>2 talking about this guy from Alaska? Just so</p> <p>3 we're clear.</p> <p>4 MS. TINGSTAD: Yes. Yes, we are. Yes,</p> <p>5 we are.</p> <p>6 THE WITNESS: Yeah, we are.</p> <p>7 BY MS. TINGSTAD:</p> <p>8 Q. So his opinion -- his preliminary opinion</p> <p>9 was used to obtain a warrant in that case is what you</p> <p>10 just said?</p> <p>11 A. Yes.</p> <p>12 Q. Okay. Is that what you would refer to as</p> <p>13 being good to -- to an agency?</p> <p>14 A. I think it was just a matter of -- yeah, I</p> <p>15 worked with that agency, and he provided information to</p> <p>16 them. He felt that he was like -- being a professional.</p> <p>17 Q. I -- do you recall me asking you about any</p> <p>18 examples you might know -- I'm sorry. Let me strike</p> <p>19 that.</p> <p>20 Do you recall me asking you why an examiner,</p> <p>21 a forensic examiner might begin to analyze evidence but</p> <p>22 then not finish that analysis and have it, you know,</p> <p>23 handed off to another examiner? Do you recall you saying</p> <p>24 that the person could be on vacation?</p>	<p style="text-align: right;">242</p> <p>1 opinions and report, are you still standing by the</p> <p>2 accuracy of your verification as you sit here today in</p> <p>3 1993?</p> <p>4 A. Yes, I am.</p> <p>5 Q. Are you aware that ISP examiner Beth Patty</p> <p>6 did a full re-examination in 2012 and could not identify</p> <p>7 the bullets as being fired by the Taurus?</p> <p>8 A. No.</p> <p>9 Q. Are you aware that Dan Gunnell also</p> <p>10 re-examined the evidence under a microscope in 2012 and</p> <p>11 agreed with Beth Patty that he could not identify the</p> <p>12 bullets as being fired by the Taurus?</p> <p>13 A. No, I -- I certainly didn't know that.</p> <p>14 Q. Given that, would you -- are you still</p> <p>15 standing by the accuracy of your verification in 1993?</p> <p>16 A. Yes.</p> <p>17 Q. Or are you just saying -- are you saying</p> <p>18 that you believe it was appropriate in 1993, or are you</p> <p>19 saying that it's still accurate today?</p> <p>20 A. I believe that what I saw in 1993 is what I</p> <p>21 saw; that's a verification.</p> <p>22 Q. In 1993, you didn't look at the test</p> <p>23 compared to the test to get a baseline of</p> <p>24 reproducibility, did you?</p>

Conducted on October 2, 2020

<p style="text-align: right;">243</p> <p>1 A. No. As I indicated, I don't -- I don't look 2 at the test as a matter of standard operating procedure. 3 I just look at the -- the evidence. 4 (Whereupon, Exhibit Number 4 was marked for 5 identification.) 6 BY MS. TINGSTAD: 7 Q. Okay. I'm going to mark as Exhibit 4 -- are 8 we on Exhibit 4? 9 A. Which one is Exhibit 4? 10 Q. I'm just asking, are we on Exhibit 4? I 11 think we are, right? 12 MR. HUOTARI: The last one that I recall 13 was Exhibit 3, being that email, that was 14 marked. 15 MS. TINGSTAD: All right. 16 BY MS. TINGSTAD: 17 Q. So Exhibit 4 is the memorandum opinion of 18 Dan Gunnell from December 7th, 2016, and it's Pursley 19 10829 and 10830. 20 So I'm going to represent to you, 21 Mr. Striupaitis, that after Mr. -- after Mr. Murdock 22 issued his report, which you saw ISP leadership 23 discussing in that email chain of Exhibit 3, after that 24 report was issued, that's when Rusty McClain went back</p>	<p style="text-align: right;">245</p> <p>1 identification along with its verification by forensic 2 scientist, Peter Striupaitis, occurred on October 15th, 3 1993. 4 All appropriate procedures and protocols in 5 place at this time were followed. 6 In October of 2012, I had the opportunity to 7 re-examine these exhibits in the presence of FS Beth 8 Patty at the Springfield Forensic Science Laboratory. As 9 a result of this examination, although I could determine 10 class characteristics agreement and some individual 11 characteristic agreement, there is insufficient 12 individual characteristics currently present to enable me 13 to make an identification." 14 And then Mr. Gunnell goes on to explain that 15 he is left with the opinion that, "The physical evidence 16 had somehow changed or been altered over the intervening 17 19 years." 18 Do you see that? 19 A. Yes. 20 Q. And he states that there was verifying stria 21 that he -- he no longer sees, and he talks about 22 incidences in Massachusetts and New York. 23 Have you ever been -- have you ever known 24 stria on a bullet to -- that's been stored properly and</p>
<p style="text-align: right;">244</p> <p>1 and did the IBIS report, and looked -- looked through the 2 microscope and wrote some notes. And then there was 3 formal re-examination done by Beth Patty in 2012, and 4 then litigation ensued. 5 So Exhibit 4 is -- is a memorandum that 6 Dan Gunnell wrote to the Judge, Judge Joseph McGraw, on 7 December 7th, 2016, in response to an Order of the Court 8 for him to -- for -- for Mr. Gunnell to explain the -- 9 his -- his conclusions after looking through the 10 microscope with Beth Patty. 11 Mr. Gunnell looked through that microscope 12 with Beth Patty after she completed her -- her 13 examination but did not make any notes. And so the Court 14 ordered Mr. Gunnell to write some notes and explain 15 himself. So that's what this is, and I just want to give 16 you a minute to read it. 17 A. Okay. I've read it. 18 Q. Okay. As you can see -- if you'll take a 19 look at the second photograph. "As part of an 20 examination of physical evidence involved in the homicide 21 of Mr. James Ascher, laboratory case number R93-1450, I 22 identified exhibit 3 and exhibit 4, both 9 millimeter 23 fired bullets, as having fired from exhibit 9, a Taurus 24 model PT99AF pistol, serial number TLF55001D. This</p>	<p style="text-align: right;">246</p> <p>1 handled properly to disappear? 2 A. Not to the best of my recollection. 3 Q. You've never heard of that before? 4 A. Well, I've heard of it deteriorating, but 5 it's sometimes more so with lead ammunition, though. 6 It's certainly not impossible. 7 Q. With copper-jacketed ammunition? Have you 8 ever heard of that? 9 A. Well, depending on the thickness of the 10 jacketing. 11 Counsel, you know, in the third column, it 12 says, "Therefore I could neither identify nor exclude 13 exhibits 3 and 4 as having been fired from exhibit 9, the 14 Taurus." 15 Q. Mm-hmm. 16 A. So he's saying it's an inconclusive. 17 Q. Mm-hmm. 18 A. So he's agreeing that there's class 19 characteristics there, right? 20 Q. So right twist, but there are a lot of guns 21 that fire bullets with a right twist; is that correct? 22 A. There are. 23 Q. Including every Taurus 9 millimeter? 24 A. Right.</p>

Conducted on October 2, 2020

<p style="text-align: right;">247</p> <p>1 Q. Including Berettas and Astras and others, 2 correct?</p> <p>3 A. And revert back to the first paragraph where 4 -- where -- no, the second paragraph, where he made the 5 ID and I made the ID, and I stand by that.</p> <p>6 Q. Okay. But even though both Beth Patty and 7 Dan Gunnell can no longer identify these -- these bullets 8 as being fired by the Taurus, you still stand by it?</p> <p>9 A. They're not excluding it. They're saying -- 10 Q. You still stand by the identification? 11 A. I stand by my original verification. 12 Q. Okay. 13 A. I'm sorry, Counsel. Didn't McClain agree 14 with the one identification in that one column of that -- 15 of that previous document you had there?</p> <p>16 Q. Yes. He found one of the bullets -- I can 17 represent to you that in his testimony, he stated that he 18 didn't conduct a full examination. His notes indicated 19 that he --</p> <p>20 A. I'm sorry. 21 Q. -- one of the bullets was inconclusive. 22 A. He -- he testified as to what? 23 Q. His testimony -- I can represent to you that 24 his testimony was that his job was to enter these</p>	<p style="text-align: right;">249</p> <p>1 Q. He was doing IBIS, yes, yes. 2 A. Okay. Thank you. 3 Q. No, it's -- there's a long -- there's a long 4 history. 5 (Whereupon, Exhibit Number 5 was marked 6 for identification.) 7 BY MS. TINGSTAD: 8 Q. Well, I want to take a quick look at what 9 I'll mark as Exhibit 5, which is your CV, sir. It's the 10 Plaintiff's -- the Bates number is ISP Defendants 2077, 11 and it goes all the way through 2081. 12 A. Okay. 13 Q. In the first part of your deposition, you 14 did look at this, correct, Mr. Striupaitis? 15 A. The CV? 16 Q. Yes, the CV. 17 A. No. I -- I provided -- I was asked to 18 provide two CDs -- CVs, and one was to be up to 1993, and 19 then as a courtesy, I -- since I already produced this, I 20 added on what was to be from '90 -- from '93 until 21 currently. 22 So this is a current CV that you are looking 23 at, except for -- let's see. It doesn't include this one 24 training thing that I'm doing now, so it's not that</p>
<p style="text-align: right;">248</p> <p>1 evidence -- this -- these items into evidence -- or not 2 into evidence, into the IBIS system. 3 A. Exactly. 4 Q. And while he was doing that, while he was 5 doing that, he did look at them under the microscope. 6 A. Okay. 7 Q. And made some notes. 8 A. Right. 9 Q. He did -- he testified that he didn't do a 10 full examination, but he did make some notes, and his 11 notes indicated that he couldn't -- that he was 12 inconclusive on bullet 3, bullet exhibit 3 -- 13 A. And he was -- 14 Q. -- and he identified the other one, right. 15 So -- 16 A. So that juncture, should've been an addendum 17 written, an addendum report. 18 Q. That's not actually what occurred, but I -- 19 I -- I hear you. That he -- what he did was he had wrote 20 some notes and -- and ended up -- they ended up coming 21 out -- 22 A. Because I understand it -- because I thought 23 I did hear that he find -- you know, but that was IBIS, 24 then okay.</p>	<p style="text-align: right;">250</p> <p>1 current. 2 Q. Okay. In terms of the -- your professional 3 experience, starting in the first page, from 1975 up 4 until just even -- 2008 at the end of that first page, 5 that's all correct, right? 6 A. Yes, that's all correct. 7 Q. All right. We've talked about most of the 8 items on here. I just want to move down toward the 9 middle of the first page or toward the bottom actually. 10 It says, "Illinois State Police Statewide Quality Review 11 Coordinator"? 12 A. Yes. 13 Q. "From 1997 to 1999"? 14 A. Right. 15 Q. What did you do as a quality -- quality 16 review coordinator? 17 A. Everybody took turns, as far as being the 18 quality review coordinators, and you would receive five 19 files and review them administratively, and then one or 20 two files where you reviewed the whole case from -- to 21 include the evidence. So administratively, it was all 22 the paperwork and no evidence, and then the -- 23 Q. So the report and -- and the worksheets? 24 A. Yes.</p>

Conducted on October 2, 2020

<p style="text-align: right;">251</p> <p>1 Q. What -- what about evidence receipts, 2 anything like that?</p> <p>3 A. Yeah. Everything -- everything there is, 4 all of the paperwork.</p> <p>5 Q. What were you checking for when you did that 6 administrative review?</p> <p>7 A. Typos and if there's any, you know, 8 something askew, what have you, you know, because it's -- 9 it is quality assurance.</p> <p>10 And then one -- at least one case to where 11 it was the paperwork and the actual fired evidence where 12 you would review it microscopically.</p> <p>13 Q. So, like, a -- like, a random reanalysis?</p> <p>14 A. Correct.</p> <p>15 Q. And what's -- what is your understanding of 16 the purpose of that quality review work?</p> <p>17 A. What is my understanding of it?</p> <p>18 Q. Yeah. What was the purpose of it?</p> <p>19 A. It was -- it was for quality assurance and 20 -- and something that we did, and we all took turns doing 21 it, two years at a time.</p> <p>22 Q. And would you do it -- when you did it for 23 two years, were you doing it for the -- you were doing it 24 for the whole state?</p>	<p style="text-align: right;">253</p> <p>1 month, and then on top of it, you were like -- you had 2 other duties so --</p> <p>3 Q. I see.</p> <p>4 A. -- on and so forth, so --</p> <p>5 Q. So you meant for each forensic examiner in 6 IPS --</p> <p>7 A. Yes.</p> <p>8 Q. -- five of their files would be 9 administratively reviewed by the quality review 10 coordinator?</p> <p>11 A. And one with the -- with the review -- 12 administrative review and the actual evidence, like a 13 redo of the case in looking at the evidence 14 microscopically.</p> <p>15 Q. And would that be per year?</p> <p>16 A. It would be, yes, I believe it was per year 17 because then you would issue a report and say that, you 18 know, passed the quality assurance --</p> <p>19 Q. Okay.</p> <p>20 A. -- for that year.</p> <p>21 Q. So each -- so for those two years -- for 22 each of those two years, you would review five files and 23 one full re-exam for each forensic examiner in ISP? 24 A. Yes.</p>
<p style="text-align: right;">252</p> <p>1 A. Correct.</p> <p>2 Q. Would be all the ISP labs in the state?</p> <p>3 A. All the examiners, correct.</p> <p>4 Q. And then you said you would do about five?</p> <p>5 A. I think it was five -- I think it was five 6 files for the paperwork, and at least -- at least one 7 case, the paperwork and the fired evidence.</p> <p>8 Q. And was that the whole year? Per year, or 9 per month, or per week?</p> <p>10 A. I -- I don't recall. There -- there was a 11 schedule, and we -- we adhered to the schedule, and I 12 don't -- I mean, that was a while ago.</p> <p>13 Q. Okay. So -- but you said that there was -- 14 there were five files, and at least one full 15 re-examination under a microscope?</p> <p>16 A. Correct.</p> <p>17 Q. But that -- what's the period of time for 18 that, is what I'm asking? Five files in the whole two 19 years, five files in one year?</p> <p>20 A. Oh, no.</p> <p>21 Q. Five files per month?</p> <p>22 A. Five files per examiner, and there were -- 23 God, I don't know how many examiners. So probably -- I 24 think it probably came out to, like, one -- one per</p>	<p style="text-align: right;">254</p> <p>1 Q. Okay.</p> <p>2 A. Yes.</p> <p>3 Q. In your two years as statewide quality 4 review coordinator, did you find any administrative 5 reviews that fell below the minimum standard?</p> <p>6 A. No, I did not.</p> <p>7 Q. Did you ever find any mistakes that were 8 made in the microscopic reanalysis?</p> <p>9 A. No, I did not.</p> <p>10 Q. Are you aware of the statewide quality 11 review ever finding or identifying a bum ID, for example?</p> <p>12 A. No.</p> <p>13 Q. In your 30 years being at ISP, you are not 14 aware of a single time that quality review uncovered a 15 mistake?</p> <p>16 MR. BHAVE: Objection. That assumes 17 facts not in evidence.</p> <p>18 THE WITNESS: No, I'm not aware.</p> <p>19 BY MS. TINGSTAD:</p> <p>20 Q. In your whole career --</p> <p>21 A. In my whole career.</p> <p>22 Q. -- with ISP? Okay.</p> <p>23 And in your career with ISP, are you aware 24 of quality review coming back and saying that a -- on an</p>

Conducted on October 2, 2020

<p style="text-align: right;">255</p> <p>1 administrative review, that the file fell below the 2 standard?</p> <p>3 A. No.</p> <p>4 Q. Could you -- on the second page, under 5 "continued education specialized training", what -- what 6 is "I attended and completed 18 armorers classes." What 7 does that mean?</p> <p>8 A. They were classes that are provided by the 9 gun manufacturer for armorers at the police departments. 10 An armorer is the actual men and women that can fix guns. 11 We took the classes so that we could get a 12 manual on that particular manufacturer so that in the 13 likelihood of a gun coming in that was malfunctioning, we 14 had a reference to look at.</p> <p>15 So, you know, some of these -- some of them 16 were repeats. I think Glock, I took twice, but, yeah, 17 there were 18 of them that I took.</p> <p>18 Q. Did you ever take one on Taurus?</p> <p>19 A. Not to the best of my recollection.</p> <p>20 Q. Mr. Striupaitis, in all of your years 21 working as a forensic examiner and giving testimony in 22 court about identifications you've made, has there ever 23 been an expert on the other side disagreeing with you?</p> <p>24 A. No. I can't recall. No.</p>	<p style="text-align: right;">257</p> <p>1 Just one other thing I want to ask you 2 about, Mr. Striupaitis.</p> <p>3 A. Yes, ma'am.</p> <p>4 Q. Do you recall testifying as an expert in a 5 Massachusetts case called Commonwealth versus Meeks?</p> <p>6 A. I do.</p> <p>7 Q. Okay. What was that about?</p> <p>8 A. It was a Dobbert hearing, a Dobbert case, 9 and I was hired by the Suffolk County State's Attorney's 10 Office to basically defend the -- the discipline, the 11 firearms discipline.</p> <p>12 And what it was, it was the Boston PD wasn't 13 receiving sufficient training and/or continuing education 14 so on and so forth, and they -- to be kind -- 15 misrepresented themselves in the case. So they asked 16 some of us and -- and then there was -- opposing counsel 17 was -- or opposing witnesses were Edena Schwartz and 18 others.</p> <p>19 So in essence, I got together all kinds of 20 articles from the FD Journal and printed up on my little 21 home printer -- my own copier, I should say, and then 22 submitted them to Suffolk County, and went and testified, 23 and I testified a half a day, the -- half an afternoon -- 24 the whole afternoon the first day and the whole morning</p>
<p style="text-align: right;">256</p> <p>1 Q. Never happened in your career?</p> <p>2 A. No.</p> <p>3 Q. Would you say that that's pretty rare for a 4 forensic examiner?</p> <p>5 A. I guess one could say that it is, but I'm -- 6 I'm proud in what I do and come from a good system.</p> <p>7 Q. I -- I'm going to mark as Exhibit 6 8 Mr. Murdock's Report of Laboratory Examination. It's 9 only a few pages long, six pages starting with ISP 10 Defendants 94 and going through ISP Defendants 99.</p> <p>11 A. 94 through 99?</p> <p>12 Q. Yes. If you can just take a few minutes to 13 look through that.</p> <p>14 A. I'm trying to discern where you see this 94, 15 99. Oh, so that's the 94.</p> <p>16 Q. Yeah.</p> <p>17 A. I see. I gotcha. Okay.</p> <p>18 Q. Okay.</p> <p>19 A. It was under my -- it was under my nose.</p> <p>20 Q. I'm actually going to stop you. Because I 21 think I'm -- I think -- I don't think I'm going to ask 22 any questions about this. So we can just -- this doesn't 23 need to be marked as Exhibit 6. We can just unmark it if 24 that's okay.</p>	<p style="text-align: right;">258</p> <p>1 the second day.</p> <p>2 And I -- I think that the prosecution was 3 relatively pleased what I -- what I had to say. I know 4 it was a certainly a stressful experience having to 5 testify, you know, all afternoon the first day and all 6 morning the next day, but I felt it was something that 7 needed to be done, and it was in -- in a way, it was a 8 rather rewarding experience.</p> <p>9 Q. And this was a challenge to the -- to the 10 sort of integrity of --</p> <p>11 A. Of firearm identification.</p> <p>12 Q. -- the firearm -- as a forensic science, 13 right?</p> <p>14 A. Yes, ma'am.</p> <p>15 Q. Do you recall testifying in that case about 16 a study that you designed called a wear study, where you 17 fired a firearm 501 times?</p> <p>18 A. Yes.</p> <p>19 Q. Do you recall talking about that?</p> <p>20 A. Yes.</p> <p>21 Q. And what was the purpose of that study?</p> <p>22 A. To see how long -- how many times it would 23 take to fire it before -- to see reproducibility of the 24 breech face markings of -- of a firearm.</p>

Conducted on October 2, 2020

<p>259</p> <p>1 Q. Was it a semi-automatic with jacket 2 ammunition; is that right?</p> <p>3 A. Yes, ma'am.</p> <p>4 Q. What was the result of your -- of your 5 study?</p> <p>6 A. We actually looked at the cartridge cases 7 only, and it was from 1 to 501, that there was a positive 8 identification.</p> <p>9 Q. So there was no discernable difference 10 between 1 to 501 that would cause you not to be able to 11 identify those cartridge cases to the gun?</p> <p>12 A. Yes, that's correct.</p> <p>13 Q. If -- if some degree of wear or damage over 14 shooting it 500 times prevented an identification, that 15 would result in a false negative, not a false positive, 16 correct?</p> <p>17 A. Correct.</p> <p>18 Q. Okay. Strike that. Okay.</p> <p>19 But in that case where you fired the weapon 20 501 times, you were still able to identify bullet number 21 1 to bullet 1 -- 10 -- 501?</p> <p>22 A. No. We didn't look at the bullets. We 23 looked at the cartridge cases.</p> <p>24 Q. You would still be able to identify</p>	<p>261</p> <p>1 Christine Macanally, who has since been married, and her 2 name is now Christine Bishop, as well as James Barton, 3 Bruce Scott, Doug Williams, and Steven Pirages.</p> <p>4 Do you recognize any of those names as 5 Rockford officers that you ever had any connection with?</p> <p>6 A. No, sir, I do not. I do not recognize any 7 of them.</p> <p>8 Q. Okay. Are you aware of any ISP crime lab 9 employees who ever communicated with my clients?</p> <p>10 A. Unless they are Rockford employees, no, I'm 11 not aware.</p> <p>12 Q. Okay. Do you --</p> <p>13 A. I'm making that jump -- that presumption. I 14 shouldn't do that. You know, if it's -- if it's Rockford 15 personnel, as far as -- otherwise, I don't know.</p> <p>16 Q. Okay. And real quickly, do you have any 17 reason to believe any evidence was suppressed or withheld 18 in the Patrick Pursley matter by anyone?</p> <p>19 A. No, sir, I don't. I don't believe anything 20 was withheld or suppressed.</p> <p>21 Q. And do you have any reason to believe that 22 any evidence was fabricated by anyone in the Patrick 23 Pursley matter?</p> <p>24 A. No, I do not have any reason to believe that</p>
<p>260</p> <p>1 cartridge case number 1 to cartridge case 501, correct?</p> <p>2 A. Yes, ma'am, that's correct.</p> <p>3 Q. Okay. All right.</p> <p>4 MS. TINGSTAD: I don't think I have any 5 more questions for you, Mr. Striupaitis.</p> <p>6 MR. IASPARRO: This is Michael Iasparro. 7 I don't have any questions.</p> <p>8 MR. BHAVE: Do any of the other defense 9 counsel have questions?</p> <p>10 MR. POTTINGER: This is Steve Pottinger. 11 I do not have any questions.</p> <p>12 MR. HUOTARI: I've got a couple of quick 13 questions. This is Joel Huotari speaking.</p> <p>14 CROSS EXAMINATION</p> <p>15 BY MR. HUOTARI:</p> <p>16 Q. Mr. Striupaitis, am I pronouncing your name 17 correctly?</p> <p>18 A. Yes, sir, you are.</p> <p>19 Q. Good afternoon.</p> <p>20 A. Good afternoon.</p> <p>21 Q. I just have a few things I would like to go 22 over with you real quickly, and we'll try to get you on 23 the road as soon as we can.</p> <p>24 My clients in this case are</p>	<p>262</p> <p>1 it was fabricated either.</p> <p>2 Q. Do you have any reason to believe that any 3 crime lab employee or Rockford police officer had any 4 intent to incriminate Patrick Pursley despite what the 5 evidence showed?</p> <p>6 A. No, I do not.</p> <p>7 Q. And do you have any reason to believe that 8 any crime lab employee or Rockford police officer had any 9 intent to cause Patrick Pursley emotional distress?</p> <p>10 A. No, I do not.</p> <p>11 MR. HUOTARI: Thank you very much, sir. 12 That's all I have for you.</p> <p>13 MR. BHAVE: Can we take a ten-minute 14 break? I do have some follow-up questions, but 15 I want to speak with Erin on the phone before we 16 do that.</p> <p>17 THE WITNESS: I don't know if she heard 18 you.</p> <p>19 MR. BHAVE: Can you -- can you hear me?</p> <p>20 MS. TINGSTAD: You want to speak with 21 me, Ashley?</p> <p>22 MR. BHAVE: No, no, not Ashley. I want 23 to speak with Erin before I -- I have some 24 follow-up questions. I want to go over my notes</p>

Conducted on October 2, 2020

<p>263</p> <p>1 with Erin. She's not with me. I want to give 2 her a call. 3 MS. TINGSTAD: Okay. 4 MR. BHAVE: Just 10 minutes. 5 (Whereupon, the proceedings went off the 6 record at 3:44 p.m. through 4:01 p.m.) 7 CROSS EXAMINATION 8 BY MR. BHAVE: 9 Q. Mr. Striupaitis, I just have a few 10 questions. Do you recall -- do you recall the testimony 11 that you gave regarding documenting test-to-test 12 examinations? 13 A. Yes, sir, I do. 14 Q. Isn't it true that the Illinois State 15 Police, there is no -- 16 MR. BHAVE: You know, what actually, can 17 we just go off the record? There's a phone 18 ringing here. 19 (Whereupon, the proceedings briefly went off 20 the record at 4:01 p.m.) 21 BY MR. BHAVE: 22 Q. Isn't it true at the Illinois State Police, 23 there is no requirement to document test-to-test 24 examinations?</p>	<p>265</p> <p>1 A. Yes, sir, it's -- it was used then. 2 Q. And is that phrase, "to the exclusion of all 3 others", was that a term of art that was used throughout 4 the firearms examiners community or industry in the 5 1990s? 6 A. Yes, sir, at the time it was. 7 MS. TINGSTAD: Objection; leading. 8 That's for the last several questions. 9 MR. BHAVE: Okay. I'm done. 10 Okay. If that's it, we will reserve 11 signature. 12 MS. TINGSTAD: I just have one follow-up 13 question. Actually, one redirect follow-up. 14 REDIRECT EXAMINATION 15 BY MS. TINGSTAD: 16 Q. Mr. Striupaitis, are -- are you aware of 17 anyone at the Rockford Police Department saying to you or 18 anyone else that they didn't find the gun that killed 19 Andrew Ascher? 20 A. No. I'm not aware of any such thing being 21 said by anyone to me in that regard. 22 Q. Are you aware of any -- anyone at the 23 Rockford Police Department saying that to anyone else? 24 A. No, I'm not aware.</p>
<p>264</p> <p>1 A. Yes, sir, that is correct. 2 MS. TINGSTAD: Objection; foundation. 3 BY MR. BHAVE: 4 Q. Based on your experience with the Illinois 5 State Police, was there a requirement to document 6 test-to-test examinations in the 1990s? 7 A. No, sir, there was no requirement to do such 8 thing. 9 Q. And based on your experience as a forensics 10 examiner, are you aware of any laboratory in the nation 11 that requires documentation to support a test-to-test 12 examination? 13 A. No, I'm not aware of any such lab that -- 14 that does that. 15 Q. Mr. Striupaitis, do you remember testifying 16 about the phrase "to the exclusion of all others"? 17 A. Yes, sir, I do. 18 Q. And was that a phrase that was used in the 19 early 1990s when a forensics examination resulted in a 20 positive identification? 21 A. Yes, sir, it was. 22 Q. Was that a phrase that was used when a 23 forensic examination resulted in a positive 24 identification in 1993?</p>	<p>266</p> <p>1 Q. Are you aware of anyone at Rockford Police 2 Department saying that because they didn't find the gun, 3 they put another one into evidence in this case? 4 A. Certainly not, no. 5 MS. TINGSTAD: Okay. I have no further 6 questions. 7 MR. BHAVE: Okay. If there are no other 8 questions, we will reserve signature. 9 THE STENOGRAPHIC REPORTER: Okay. 10 Anybody need to order any transcript today? 11 Ashley? 12 MS. TINGSTAD: I won't be ordering it 13 today. 14 THE STENOGRAPHIC REPORTER: You won't 15 be? 16 MR. BHAVE: Yeah. We'll -- we'll go 17 ahead and order that transcript. 18 THE STENOGRAPHIC REPORTER: Okay. 19 Anyone else on Zoom be ordering? 20 MR. HUOTARI: This is Joel Huotari. I 21 would like to get a copy electronically. 22 THE STENOGRAPHIC REPORTER: Okay. Sure. 23 MR. IASPARRO: Michael Iasparro would as 24 well.</p>

Conducted on October 2, 2020

<p style="text-align: right;">267</p> <p>1 MR. BHAVE: And could we get that</p> <p>2 electronically as well, PDF with PDF exhibits?</p> <p>3 THE STENOGRAPHIC REPORTER: Sure.</p> <p>4 MR. BHAVE: Okay. Thank you.</p> <p>5 MR. POTTINGER: Robert Pottinger. I'll</p> <p>6 take a copy as well.</p> <p>7 THE STENOGRAPHIC REPORTER: Okay.</p> <p>8 Robert will as well, Robert Pottinger?</p> <p>9 MR. POTTINGER: Yes, sir.</p> <p>10 THE STENOGRAPHIC REPORTER:</p> <p>11 Electronically for everyone?</p> <p>12 MR. BHAVE: That's good.</p> <p>13 THE STENOGRAPHIC REPORTER: All right.</p> <p>14 (Whereupon, the videoconference deposition</p> <p>15 concluded at 4:05 p.m.)</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p>	<p style="text-align: right;">269</p> <p>1 CERTIFICATE OF COURT REPORTER - NOTARY PUBLIC</p> <p>2</p> <p>3 I, KENNETH A. REGAN, Court Reporter and Notary Public in and</p> <p>4 for the State of Florida, do hereby certify that the</p> <p>5 foregoing transcript is a true and correct record of the</p> <p>6 testimony given; that said testimony was taken by me</p> <p>7 stenographically and thereafter reduced to typewriting</p> <p>8 under my direction; that review was requested; and that I</p> <p>9 am neither counsel for, related to, nor employed by any of</p> <p>10 the parties to this case and have no interest, financial or</p> <p>11 otherwise, in its outcome</p> <p>12 IN WITNESS WHEREOF, I have hereunto set my</p> <p>13 hand and affixed my notarial seal this 17th day of</p> <p>14 November, 2020.</p> <p>15</p> <p>16</p> <p>17</p> <p>18 <i>Kenneth Andrew Regan</i></p> <p>19</p> <p>20 KENNETH A. REGAN, CCR</p> <p>21 Notary Public - State of Florida</p> <p>22 My Commission No. GG 276143</p> <p>23 My Commission Expires: 11/13/22</p> <p>24</p>
<p style="text-align: right;">268</p> <p>1 ACKNOWLEDGEMENT OF DEPONENT</p> <p>2</p> <p>3 I, PETER STRIUPAITIS, do hereby acknowledge that I have read</p> <p>4 and examined the foregoing testimony, and the same is a</p> <p>5 true, correct, and complete transcription of the testimony</p> <p>6 given by me and any corrections appear on the attached</p> <p>7 errata sheet signed by me.</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12 _____</p> <p>13 (DATE) (SIGNATURE)</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p>	

A			
aberdeen	accrediting	248:18, 250:9,	75:3, 75:14,
64:11	223:1, 223:10	256:20, 259:6,	86:15, 87:20,
ability	accuracy	263:16, 265:13	91:18, 91:20,
111:9	242:2, 242:15	add	105:22, 116:10,
able	accurate	127:15	127:17, 141:5,
70:13, 77:22,	211:20, 242:19	added	141:7, 142:2,
85:4, 89:18,	acknowledge	82:18, 249:20	162:1, 168:3,
91:20, 130:17,	268:3	addendum	172:20, 181:10,
133:18, 202:16,	acknowledgement	248:16, 248:17	195:8, 201:15,
259:10, 259:20,	66:16, 268:1	adding	205:8, 208:5,
259:24	acquitted	120:19	243:21, 243:23,
above	208:4	additional	244:9, 244:12
163:4, 202:19,	across	128:7	afternoon
216:24	78:12	adhere	257:23, 257:24,
absent	act	225:15	258:5, 260:19,
133:7	156:19	adhered	260:20
absolutely	acted	252:11	afterwards
133:7, 193:22,	156:22	adjacent	130:5
232:19	acting	75:21, 167:24	again
abuse	156:18	administering	69:21, 86:16,
131:7	active	68:16	123:10, 124:9,
academy	143:18	administrative	127:24, 130:21,
143:16	activities	150:5, 153:9,	153:18, 154:9,
access	232:5	153:18, 153:24,	158:19, 177:6,
98:1, 126:11,	actual	251:6, 253:12,	177:7, 181:23,
127:20	79:9, 112:24,	254:4, 255:1	190:16, 192:19,
according	114:22, 141:8,	administratively	201:19
170:22, 184:4	141:10, 142:14,	79:9, 250:19,	against
account	173:15, 192:2,	250:21, 253:9	193:5, 209:13
191:14	251:11, 253:12,	administrator	agencies
accounts	255:10	195:15	128:5, 136:15,
191:8	actually	admired	195:14, 238:5,
accreditation	68:22, 69:24,	234:13	238:12, 238:13,
112:24, 113:2,	70:7, 74:7,	admissibility	238:16
113:5, 113:14,	75:5, 78:16,	68:18	agency
220:24, 221:14,	80:23, 83:18,	aeir	72:16, 136:16,
222:15, 222:20,	85:11, 86:17,	200:1	137:22, 137:24,
223:1, 223:4,	88:12, 93:7,	aer	159:20, 159:21,
223:12, 223:13,	104:3, 117:9,	200:4	167:17, 167:21,
223:18, 223:22,	118:4, 119:11,	aero	192:18, 193:17,
225:4, 225:5,	134:11, 135:4,	200:4	194:8, 238:21,
225:7, 225:16,	141:20, 144:8,	affirm	240:13, 240:15
225:23	149:5, 154:21,	69:11	ago
accredited	156:11, 174:11,	affixed	82:10, 128:12,
223:14, 224:19,	183:4, 191:5,	269:13	252:12
225:14	193:2, 193:3,	after	agree
	210:19, 213:13,	70:20, 73:20,	91:21, 182:13,
	213:17, 233:11,	73:23, 75:2,	182:16, 217:3,

217:9, 218:24, 219:8, 221:13, 221:17, 247:13 agreed 68:22, 212:5, 212:10, 214:17, 242:11 agreeing 246:18 agreement 70:6, 91:3, 93:1, 93:2, 93:3, 103:8, 111:23, 111:24, 125:11, 125:12, 125:13, 128:18, 129:3, 129:7, 226:9, 245:10, 245:11 ahead 136:10, 152:16, 179:17, 203:15, 216:14, 216:16, 224:1, 266:17 aide 233:9, 233:15 airtight 127:22 akin 98:16 al 63:9 alaska 194:15, 194:16, 194:17, 237:15, 237:21, 240:2 alignment 103:17, 124:13 alison 64:9, 67:7 all 65:22, 68:6, 68:20, 68:24, 69:6, 70:6, 70:12, 70:15, 71:3, 71:11, 82:4, 82:5, 83:15, 84:12,	87:12, 88:8, 94:4, 95:18, 96:17, 97:23, 98:5, 98:9, 98:10, 98:17, 98:23, 99:1, 112:4, 118:20, 119:4, 119:6, 119:17, 121:4, 121:13, 121:23, 124:20, 129:7, 131:19, 131:23, 132:1, 132:4, 132:13, 135:20, 136:5, 150:10, 150:17, 157:23, 164:13, 164:16, 165:16, 167:22, 167:23, 169:18, 172:8, 180:22, 182:20, 182:21, 190:12, 191:2, 199:20, 208:14, 208:17, 214:5, 215:2, 215:6, 215:7, 219:21, 222:17, 243:15, 245:4, 249:11, 250:5, 250:6, 250:7, 250:21, 251:4, 251:20, 252:2, 252:3, 255:20, 257:19, 258:5, 260:3, 262:12, 264:16, 265:2, 267:13 alleged 164:21, 164:24 allow 153:15 alluminum 178:24, 179:5 almost 200:18 alone 101:23, 102:15, 102:17, 102:22 along 67:8, 155:4,	162:6, 245:1 already 90:20, 91:10, 91:11, 137:4, 138:20, 138:21, 138:22, 156:15, 163:11, 166:9, 190:10, 196:22, 220:4, 220:5, 249:19 also 78:19, 106:6, 107:16, 108:2, 113:18, 121:7, 122:7, 123:6, 124:5, 130:23, 132:7, 149:21, 152:1, 152:18, 154:23, 155:22, 156:19, 162:22, 172:6, 173:19, 173:20, 198:6, 199:16, 209:3, 217:17, 218:17, 224:19, 224:20, 232:15, 235:20, 238:8, 242:9 altered 245:16 although 104:2, 215:12, 245:9 aluminum 205:7, 205:11 always 88:19, 88:20, 98:16, 121:15, 121:16, 124:2, 125:2, 130:14, 135:12, 218:8 amanda 67:23 american 143:15, 172:2 ammo 172:2, 205:2, 205:3 ammos 205:15	ammunition 103:20, 103:22, 104:1, 104:6, 104:7, 104:9, 104:10, 104:14, 105:1, 105:15, 110:18, 122:15, 122:16, 133:9, 246:5, 246:7, 259:2 analysis 96:24, 116:10, 132:8, 132:16, 171:15, 240:22 analyst 71:19, 180:13 analysts 81:14 analyze 240:21, 241:11, 241:16 anchorage 194:16, 194:17 ancillary 155:20, 156:5 andrew 265:19 ann 64:6, 161:10 announce 67:4 another 68:8, 83:5, 86:10, 90:1, 92:22, 96:5, 96:6, 117:20, 137:14, 138:4, 138:5, 138:21, 138:23, 140:22, 152:2, 152:20, 165:12, 168:5, 168:6, 172:14, 177:20, 182:19, 198:14, 202:16, 240:23, 266:3 answer 70:22, 70:23, 71:4, 73:7,
--	---	--	---

82:22, 152:16, 180:6, 184:17, 193:19, 194:4, 194:8, 215:15, 217:16, 217:20, 219:5, 219:14, 221:8, 227:13, 230:14, 230:24, 231:10, 238:23 answered 237:23 any 71:8, 75:9, 79:4, 83:20, 84:4, 84:14, 84:15, 85:23, 86:4, 86:5, 88:11, 93:2, 93:3, 95:1, 96:24, 100:11, 105:18, 106:13, 114:5, 120:23, 125:14, 127:5, 139:14, 150:7, 151:6, 154:11, 160:6, 160:18, 165:11, 166:23, 171:13, 176:7, 181:23, 184:3, 194:2, 194:24, 197:2, 207:9, 207:11, 207:22, 209:10, 211:24, 212:1, 212:21, 212:23, 213:8, 220:14, 220:22, 221:19, 224:9, 232:10, 236:19, 237:20, 240:17, 241:4, 241:8, 241:10, 241:14, 244:13, 251:7, 254:4, 254:7, 256:22, 260:4, 260:7, 260:8, 260:11, 261:4, 261:5, 261:6, 261:8, 261:16,	261:17, 261:21, 261:22, 261:24, 262:2, 262:3, 262:7, 262:8, 264:10, 264:13, 265:20, 265:22, 266:10, 268:6, 269:9 anybody 226:7, 237:16, 266:10 anyone 148:8, 148:11, 155:1, 227:7, 261:18, 261:22, 265:17, 265:18, 265:21, 265:22, 265:23, 266:1, 266:19 anything 79:3, 94:19, 100:4, 111:6, 114:5, 118:9, 125:11, 141:11, 146:17, 154:12, 160:18, 164:8, 175:7, 206:8, 213:10, 213:12, 213:20, 218:3, 234:4, 236:6, 236:8, 236:14, 251:2, 261:19 aofte 143:13, 144:9, 144:18, 145:6, 149:16, 154:14, 154:15, 232:4, 232:6 apparently 195:15 appear 169:17, 199:17, 268:6 appearances 64:1, 65:1 appeared 65:22, 199:11, 199:13	appears 160:20, 178:1, 199:10 apply 132:7 appreciate 69:4 appropriate 101:1, 242:18, 245:4 arbor 64:6 archive 218:16 area 78:18, 97:24, 98:5, 126:11, 172:20, 183:19, 190:1 areas 91:3, 91:4, 91:6, 111:23, 226:8, 226:9 aren't 107:10, 165:23 argumentative 114:4 armorer 255:10 armorers 255:6, 255:9 around 75:24, 78:18, 90:23, 91:5, 121:20, 154:6, 155:12, 156:1, 190:1, 190:13 art 265:3 articles 257:20 artistic 227:21 ascher 168:20, 216:20, 244:21, 265:19 asclد 224:19, 225:4,	225:7, 225:11 ashley 64:3, 67:8, 68:21, 69:21, 240:1, 262:21, 262:22, 266:11 aside 84:5 asked 71:2, 87:24, 97:17, 132:15, 133:15, 164:1, 184:9, 237:1, 237:5, 237:22, 249:17, 257:15 askew 251:8 asking 137:5, 141:19, 145:5, 195:19, 200:1, 200:2, 220:9, 237:9, 240:17, 240:20, 243:10, 252:18 aspect 80:24, 82:9 assistant 65:4, 79:20, 79:21, 80:2, 80:5, 80:19, 81:3, 83:9, 86:21, 87:9, 90:1, 148:23, 150:5, 151:20, 153:2, 153:24 association 143:19, 223:3, 225:4 associations 143:24 assume 71:5, 230:17 assumes 231:6, 254:16 assurance 79:7, 251:9, 251:19, 253:18 astra 209:6
--	--	---	--

astras 247:1 atf 144:8, 144:17, 152:8 attached 268:6 attend 80:13, 220:22 attended 80:10, 255:6 attorney 64:23, 64:33, 65:4, 65:9, 65:19, 68:8, 70:22, 150:17, 150:24, 151:1 attorney's 257:9 attorneys 64:16, 70:20, 80:9 audio 70:8 authored 168:16 automation 215:16 avenue 64:20 average 76:6 aware 84:14, 127:5, 165:19, 165:23, 184:8, 184:21, 207:19, 207:22, 208:4, 208:22, 209:2, 209:3, 209:8, 209:9, 209:11, 209:12, 209:15, 210:2, 211:24, 212:12, 212:15, 230:9, 230:15, 230:18, 236:19, 239:22, 241:18, 242:5, 242:9, 254:10,	254:14, 254:18, 254:23, 261:8, 261:11, 264:10, 264:13, 265:16, 265:20, 265:22, 265:24, 266:1 awareness 230:20 away 90:21, 163:12, 235:1 <hr/> B <hr/> b-h-a-v-e 67:22 b-o-e-s-e 235:13 back 70:2, 77:12, 82:14, 89:5, 100:13, 102:13, 114:11, 128:8, 135:15, 135:16, 140:14, 153:2, 153:8, 153:10, 153:15, 153:17, 154:5, 154:19, 169:7, 171:22, 173:8, 195:17, 201:22, 203:4, 203:10, 203:12, 212:19, 235:2, 243:24, 247:3, 254:24 backlog 78:16, 78:19, 139:9, 139:12, 139:18, 140:24 backlogged 241:12 bag 160:15, 164:21, 164:22, 164:24, 165:4, 177:11, 186:9, 190:24 baggy 160:12, 160:13, 160:15, 172:1,	172:2, 172:3, 172:5 bags 164:16 ballistics 140:4, 140:5, 210:23 balsley 65:13 barely 160:23 barrel 99:2, 99:3, 99:9, 99:15, 100:10, 201:22 barrick 65:13 barton 64:33, 67:19, 261:2 base 107:22, 111:16, 111:17, 111:24, 112:1, 114:1, 118:22, 118:23, 119:22, 122:1, 122:19, 141:9, 178:13, 187:15, 187:16, 195:22, 195:23 based 68:19, 101:22, 102:14, 102:15, 102:22, 112:23, 120:13, 130:19, 131:14, 131:17, 132:2, 134:8, 141:15, 207:9, 209:4, 209:13, 227:14, 230:3, 230:20, 264:4, 264:9 baseline 109:6, 125:7, 242:23 basement 75:19 basically 74:24, 117:13,	120:5, 146:7, 257:10 basing 194:5 basis 234:3 bates 210:7, 249:10 bathroom 115:15 bearing 75:9 beat 222:22 became 79:19, 79:20, 153:4, 154:8, 212:15, 236:5 because 74:11, 80:23, 82:10, 88:13, 93:10, 94:3, 96:5, 104:5, 104:17, 105:10, 105:18, 106:16, 107:3, 107:22, 108:15, 108:21, 111:5, 115:3, 118:7, 121:14, 121:17, 124:21, 131:23, 133:9, 135:19, 139:9, 139:12, 140:9, 142:7, 148:22, 150:16, 153:4, 156:4, 156:11, 157:14, 158:5, 160:22, 161:20, 165:4, 171:4, 179:6, 181:1, 192:9, 193:17, 194:13, 195:5, 200:15, 202:5, 205:8, 213:13, 214:10, 220:20, 220:24, 221:2, 225:12, 225:14, 226:7, 229:18,
--	---	--	---

<p>230:17, 232:5, 234:17, 241:12, 248:22, 251:8, 253:17, 256:20, 266:2</p> <p>been</p> <p>69:16, 71:2, 84:19, 90:20, 93:12, 93:14, 95:21, 96:4, 97:4, 103:7, 104:2, 120:7, 120:13, 130:21, 131:22, 132:15, 132:17, 134:2, 137:11, 140:9, 140:17, 141:21, 142:7, 147:4, 147:23, 148:2, 148:4, 153:21, 155:12, 157:5, 157:17, 157:23, 163:11, 193:14, 193:18, 198:1, 210:7, 218:18, 223:9, 223:16, 225:23, 229:19, 230:9, 236:24, 245:16, 245:23, 245:24, 246:13, 248:16, 255:23, 261:1</p> <p>before</p> <p>94:7, 105:17, 108:19, 109:6, 109:24, 116:8, 139:2, 148:2, 152:2, 154:23, 171:15, 175:18, 181:1, 181:22, 185:1, 185:7, 186:18, 195:12, 206:6, 236:24, 237:14, 238:24, 246:3, 258:23, 262:15, 262:23</p> <p>began</p> <p>81:6, 241:15</p>	<p>begin</p> <p>81:8, 240:21</p> <p>beginning</p> <p>233:15</p> <p>behalf</p> <p>63:15</p> <p>behind</p> <p>204:1</p> <p>being</p> <p>68:17, 68:19, 70:7, 70:8, 70:9, 73:9, 74:22, 83:10, 84:22, 94:20, 98:17, 117:18, 127:12, 137:14, 152:18, 154:5, 184:9, 190:4, 191:9, 203:13, 229:5, 229:9, 230:3, 230:5, 237:5, 238:12, 239:2, 239:3, 239:9, 239:22, 240:13, 240:16, 242:7, 242:12, 243:13, 247:8, 250:17, 254:13, 265:20</p> <p>believe</p> <p>78:6, 79:13, 81:1, 82:23, 84:24, 87:1, 87:14, 106:17, 112:5, 150:5, 155:24, 156:22, 179:20, 183:24, 206:21, 207:12, 207:13, 207:16, 211:19, 220:17, 222:13, 232:18, 235:2, 235:18, 236:18, 242:18, 242:20, 253:16, 261:17, 261:19, 261:21, 261:24, 262:2, 262:7</p> <p>belong</p> <p>232:11</p>	<p>below</p> <p>160:24, 164:20, 169:2, 179:8, 179:21, 179:22, 199:8, 222:14, 254:5, 255:1</p> <p>belt</p> <p>119:8</p> <p>bench</p> <p>153:8, 153:15, 154:19, 154:23, 155:16, 157:2</p> <p>benchwork</p> <p>86:18, 87:20</p> <p>beretta</p> <p>147:8, 147:14, 170:17, 179:15, 197:1, 197:9, 209:6</p> <p>berettas</p> <p>247:1</p> <p>besides</p> <p>152:18</p> <p>best</p> <p>75:1, 84:6, 104:24, 107:9, 107:10, 126:18, 220:17, 221:15, 222:1, 222:3, 232:10, 237:2, 246:2, 255:19</p> <p>beth</p> <p>149:2, 149:22, 242:5, 242:11, 244:3, 244:10, 244:12, 245:7, 247:6</p> <p>better</p> <p>83:7, 194:21, 221:7</p> <p>between</p> <p>101:12, 103:8, 130:3, 155:17, 214:13, 259:10</p> <p>beyond</p> <p>115:4, 115:6, 194:24, 206:8, 237:21</p>	<p>bhave</p> <p>65:3, 66:14, 67:21, 67:22, 82:19, 113:10, 115:23, 128:22, 150:14, 150:21, 158:22, 159:2, 159:6, 159:9, 180:1, 180:4, 184:11, 184:14, 191:10, 217:17, 226:24, 227:9, 229:21, 229:24, 231:6, 237:22, 239:12, 254:16, 260:8, 262:13, 262:19, 262:22, 263:4, 263:8, 263:16, 263:21, 264:3, 265:9, 266:7, 266:16, 267:1, 267:4, 267:12</p> <p>bishop</p> <p>67:18, 261:2</p> <p>bit</p> <p>76:15, 79:14, 85:6, 94:8, 107:13, 109:2, 115:17, 118:14, 124:5, 124:8, 125:21, 144:13, 153:8, 183:16, 183:20, 183:21, 220:20</p> <p>black</p> <p>180:21, 200:17, 200:18</p> <p>blaze</p> <p>205:6</p> <p>bleaches</p> <p>207:2</p> <p>blood</p> <p>175:8</p> <p>blue</p> <p>199:22, 199:23, 200:14, 200:17, 200:21, 200:22</p>
---	--	--	--

blued 199:21, 200:12 bluish 200:19 board 223:4, 223:12, 223:13, 223:18, 223:22, 225:5, 232:11, 232:12 bob 77:23, 88:7 body 95:13, 223:1, 223:10, 225:15 boese 235:4, 235:12, 235:16, 235:17, 235:20, 236:17 boese's 236:5 bonafide 136:18, 192:19, 192:24, 193:2 bore 200:7 boss 80:13, 80:15, 80:16, 80:23, 83:17, 195:5, 195:12 boston 257:12 both 67:23, 88:4, 129:15, 142:19, 145:18, 179:18, 179:19, 204:17, 209:24, 221:21, 223:16, 232:6, 236:1, 244:22, 247:6 bother 92:21 bottom 110:17, 117:9, 118:5, 162:22, 163:2, 163:3, 163:6, 168:1,	185:4, 201:23, 204:13, 250:9 bowman 64:23, 67:15 box 64:30, 172:2, 187:21, 189:3, 196:3 boxes 218:16 branch 80:3, 80:5, 87:7, 87:8, 95:23, 151:21, 151:24, 155:15, 168:24, 170:3, 223:14 brass 104:20, 175:12, 175:24, 178:18, 178:19, 179:3 brass-colored 179:3 brazil 201:2 break 115:10, 115:12, 115:16, 116:8, 116:9, 151:11, 219:19, 262:14 breaking 235:7 breaks 71:8 breech 229:3, 258:24 breech-face 119:4, 120:22, 120:24, 121:14, 121:16, 121:22, 123:11 breech-trace 226:22 briefly 263:19 broadview 79:24, 80:2, 80:3, 80:5,	80:19, 87:7, 87:8, 95:23, 139:4, 151:21, 151:24, 154:22, 154:24, 155:15, 163:12, 163:19, 168:24, 170:3, 223:14 broke 235:9 brought 81:2, 166:7 brown 164:21, 164:22, 164:24 bruce 64:34, 67:19, 261:3 bruised 100:7 budgetarily 82:10 bugged 153:13 bullet 88:21, 93:24, 98:22, 99:13, 99:15, 99:16, 101:16, 101:18, 101:22, 101:24, 102:10, 106:3, 106:6, 108:23, 129:17, 130:12, 133:8, 134:15, 134:17, 160:13, 160:15, 160:16, 168:4, 168:5, 169:3, 169:4, 173:12, 173:20, 173:23, 173:24, 175:7, 175:12, 175:14, 175:17, 176:2, 185:11, 186:20, 187:3, 187:16, 187:18, 187:22, 188:7, 188:12, 188:16, 189:14, 189:16,	190:4, 190:10, 190:16, 190:17, 191:17, 192:3, 192:11, 193:7, 193:13, 195:18, 195:21, 196:8, 196:9, 212:10, 213:21, 236:23, 241:20, 245:24, 248:12, 259:20, 259:21 bulletproof 152:23 bullets 88:20, 89:11, 105:23, 106:11, 126:15, 130:13, 132:8, 132:14, 133:1, 133:13, 140:1, 140:9, 145:15, 172:3, 172:4, 175:19, 183:3, 187:12, 208:24, 209:18, 209:20, 210:1, 212:6, 213:14, 214:6, 214:11, 214:14, 215:23, 241:22, 242:7, 242:12, 244:23, 246:21, 247:7, 247:16, 247:21, 259:22 bum 254:11 bureau 153:7, 225:2, 225:13 burglary 72:13, 95:11 bw 197:24 <hr/> C <hr/> c 161:4, 205:19 cal 198:18
--	--	--	--

caliber 91:16, 99:19, 99:20, 100:14, 104:11, 169:3, 170:19, 175:1, 178:15, 178:22, 186:19, 191:4, 191:18, 198:19 california 144:7, 145:11, 147:7 call 80:3, 89:24, 103:1, 105:8, 129:12, 135:22, 136:4, 149:11, 150:11, 150:20, 151:1, 151:5, 154:15, 161:18, 184:22, 222:1, 222:2, 263:2 called 69:16, 73:16, 94:9, 105:6, 106:17, 118:12, 119:19, 125:3, 134:12, 152:20, 152:22, 184:21, 208:19, 257:5, 258:16 calling 169:19 came 79:2, 81:16, 119:5, 128:1, 155:6, 155:14, 157:15, 170:7, 175:9, 184:7, 234:18, 252:24 can't 96:11, 96:13, 96:14, 96:21, 102:14, 102:21, 105:1, 119:22, 133:7, 143:8, 178:16, 187:6, 231:2, 231:3, 237:20, 241:8,	241:10, 255:24 candidate 142:13 canister 126:24 canisters 128:2 cant 121:20, 123:16 capabilities 204:18 capability 78:23, 203:13 capacity 144:17, 150:5, 202:9, 202:17, 202:22 carbondale 157:15 career 137:6, 143:23, 233:16, 233:20, 241:15, 254:20, 254:21, 254:23, 256:1 careful 125:23 carries 73:6 cartridge 98:22, 106:1, 106:3, 106:4, 108:24, 109:11, 116:18, 116:20, 119:5, 119:18, 121:20, 122:7, 123:9, 123:13, 123:24, 132:8, 133:4, 133:8, 133:12, 139:24, 140:9, 140:10, 140:13, 140:17, 142:16, 142:23, 145:17, 147:14, 168:5, 169:3, 173:16, 176:19, 177:21, 177:22, 178:1, 178:4,	178:7, 178:13, 179:3, 179:5, 179:19, 181:13, 184:2, 187:19, 202:17, 204:11, 209:1, 209:5, 209:17, 209:20, 209:23, 212:5, 213:15, 214:6, 214:14, 216:20, 220:11, 226:22, 228:20, 236:23, 259:6, 259:11, 259:23, 260:1 cartridges 105:4, 105:23, 170:20, 178:23, 178:24, 201:24, 202:5, 202:11, 202:13, 203:8 case 63:7, 68:10, 69:23, 72:11, 72:13, 76:14, 78:16, 78:17, 79:9, 83:23, 84:3, 85:12, 88:8, 98:6, 98:22, 103:23, 104:2, 104:8, 106:3, 106:5, 108:24, 121:20, 122:17, 123:13, 132:2, 133:5, 133:8, 139:15, 140:9, 140:13, 140:23, 147:6, 147:15, 147:16, 147:23, 148:9, 148:16, 150:8, 151:18, 155:17, 156:3, 164:8, 165:15, 165:21, 166:2, 174:6, 177:14, 177:17, 177:19, 177:22, 178:14, 178:18, 181:22, 183:7,	187:19, 204:11, 207:11, 208:19, 209:10, 211:22, 212:1, 212:14, 212:21, 216:22, 217:1, 218:17, 219:1, 219:10, 226:15, 226:23, 228:20, 236:20, 236:23, 237:18, 238:3, 239:20, 240:9, 244:21, 250:20, 251:10, 252:7, 253:13, 257:5, 257:8, 257:15, 258:15, 259:19, 260:1, 260:24, 266:3, 269:10 cases 72:3, 72:7, 73:9, 74:19, 74:20, 76:3, 76:8, 76:17, 78:10, 78:14, 78:19, 79:8, 79:10, 80:10, 82:11, 88:7, 95:1, 116:18, 116:20, 119:5, 119:18, 122:7, 123:9, 123:24, 132:9, 133:4, 133:12, 138:19, 139:7, 139:9, 139:11, 139:24, 140:11, 140:17, 142:16, 142:23, 145:17, 147:14, 149:24, 151:22, 153:22, 155:1, 155:14, 155:22, 156:1, 156:5, 156:21, 165:11, 169:4, 173:16, 176:19, 178:1, 178:4, 178:7, 179:19, 181:13,
---	--	---	---

183:8, 183:14, 184:2, 208:10, 209:1, 209:5, 209:17, 209:20, 209:23, 212:5, 213:15, 214:6, 214:14, 216:20, 220:11, 259:6, 259:11, 259:23 casework 73:21, 73:24, 156:16 casing 159:23 casings 160:14, 241:22 categories 94:4 caught 71:16, 235:7 cause 127:13, 259:10, 262:9 caused 84:16, 119:17, 220:23 cci 178:21, 205:5, 205:6, 205:11 ccr 269:20 ccs 179:18 cds 249:18 center 82:12, 200:6 certain 109:12, 133:7, 144:7, 153:12 certainly 102:1, 125:16, 139:7, 157:9, 165:9, 174:17, 192:15, 222:23, 227:22, 233:17, 242:13, 246:6, 258:4, 266:4	certificate 66:17, 269:1 certify 269:4 chain 66:7, 98:11, 98:12, 125:22, 126:14, 210:8, 210:17, 216:24, 243:23 challenge 258:9 chamber 202:12, 202:13, 202:16, 203:4 chance 143:24, 210:12 change 127:13, 181:3 changed 245:16 characteristic 99:18, 100:18, 119:20, 245:11 characteristics 94:5, 98:23, 99:1, 99:4, 99:5, 99:6, 99:8, 99:19, 100:12, 100:14, 100:19, 100:21, 101:3, 101:4, 101:11, 101:12, 101:16, 101:23, 102:14, 102:15, 102:17, 103:1, 103:4, 103:9, 103:13, 103:17, 110:23, 116:11, 117:4, 117:15, 117:17, 118:12, 118:15, 119:10, 119:24, 120:11, 120:20, 120:24, 121:5, 122:6, 124:7, 128:19, 129:4, 129:11, 129:20, 129:21,	130:6, 130:14, 130:19, 130:20, 134:12, 134:24, 138:10, 227:15, 227:16, 227:18, 227:23, 229:3, 229:5, 245:10, 245:12, 246:19 charlene 161:3 chatted 128:11 check 193:5 checked 172:12 checking 251:5 chemist 235:21, 235:22 chicago 64:13, 65:7, 81:9, 81:13, 81:16, 81:19, 82:13, 82:15, 82:16, 84:10, 84:16, 84:18, 87:4, 148:13, 149:7, 150:1, 155:5, 168:23, 170:2, 232:23, 233:8, 233:14, 235:17, 235:19 chiefs 80:11, 80:12 chris 145:23 christine 67:17, 67:18, 261:1, 261:2 christmas 98:17 chrome 100:9, 199:22 cidi 177:13 circle 121:2, 186:12,	198:14, 204:4 circled 187:22, 188:12, 200:6, 200:8, 201:15, 205:19 city 63:9, 68:10, 138:5 civil 70:6 claim 208:1 claimed 207:20 clair 78:17 clarification 71:6 clarify 219:8 class 99:6, 99:18, 99:19, 100:13, 100:14, 100:17, 101:2, 101:11, 101:12, 101:23, 102:14, 102:15, 102:16, 102:22, 102:24, 103:3, 103:4, 103:8, 103:17, 116:11, 117:4, 117:14, 120:23, 121:5, 122:5, 128:19, 129:3, 129:10, 129:20, 130:5, 130:10, 130:14, 130:19, 229:2, 229:5, 245:10, 246:18 classes 255:6, 255:8, 255:11 clear 71:1, 136:5, 177:11, 184:7, 227:14, 240:3 client 150:17
---	--	--	--

clients 260:24, 261:9 clip 202:15 clockwise 99:11 close 149:14, 164:2, 222:17, 226:11 closed 82:13 coating 175:22, 176:1 cochran 147:11 coleman 145:23 collusions 93:10 color 159:19, 169:13, 178:18, 200:23, 228:19 colored 175:12, 175:24, 196:5, 196:6 column 160:4, 160:21, 173:9, 211:6, 211:9, 212:3, 212:9, 212:12, 213:2, 213:3, 246:11, 247:14 come 77:12, 90:5, 101:6, 124:12, 128:13, 130:13, 140:14, 182:7, 195:17, 201:5, 204:8, 216:1, 224:9, 256:6 comes 73:3, 99:13, 111:21, 145:17, 160:23, 188:10, 204:7 comfortable 194:7	coming 119:18, 123:20, 130:18, 214:24, 248:20, 254:24, 255:13 commenced 67:1 commercially 105:11 commission 130:1, 130:3, 269:22, 269:23 committees 144:9 commodities 80:8 common 92:2, 92:7, 100:19, 207:4 common-interest 150:18 commonwealth 257:5 communicated 261:9 community 236:2, 265:4 compare 72:19, 104:23, 116:12, 122:7, 129:2, 135:24, 163:4, 163:9, 163:14, 163:20, 179:9, 188:21 compared 121:11, 181:20, 183:9, 242:23 comparing 107:2 comparison 72:19, 83:6, 102:11, 110:16, 112:2, 137:3, 173:13, 188:18, 196:11, 215:20 comparisons 134:1 compiled 134:11, 135:3	complete 76:21, 88:20, 268:5 completed 75:14, 91:12, 244:12, 255:6 complexity 76:14 complies 69:9 component 105:24, 133:9 con 187:8 concave 187:6, 187:9, 187:10, 187:11, 187:15, 196:1 concentric 121:1 concern 82:10 concerns 194:24 concluded 173:16, 173:19, 267:15 conclusion 123:21, 179:24, 185:1, 215:19 conclusions 128:12, 179:18, 215:12, 217:5, 244:9 conclusive 212:10 concurred 84:12, 86:8 condition 88:19, 98:15, 100:6, 108:14, 121:11, 176:2, 188:12, 196:9, 203:18, 213:7 conditions 127:19 conduct 73:3, 132:16, 166:1, 166:4, 166:21, 205:4, 247:18 conducted 70:5, 70:7, 135:21, 136:8, 165:20, 166:19, 208:23, 212:13, 241:19 conducting 96:17, 97:3, 110:8, 166:24, 193:11 conference 150:11, 151:1, 151:5 confidence 143:2, 143:4, 214:15 configuration 104:11 confirm 68:15, 84:10 confuse 124:7, 226:10 confused 71:1 connection 149:17, 261:5 consecutive 145:9 consider 77:19, 123:18, 123:19, 231:23 considered 155:22 consistent 172:7, 174:17, 174:20, 183:13, 186:7 contain 164:21, 165:1 container 174:24, 186:9, 190:24 containers 127:23, 160:12, 160:13, 160:14,
--	--	--

207:10, 207:11 containing 160:12, 160:14, 160:15 contemporaries 236:11 contemporary 236:11 context 116:19 continuation 70:1 continue 151:12, 234:14 continued 65:1, 255:5 continuing 75:12, 154:16, 162:19, 257:13 contour 129:6 contours 88:14 convenient 181:2 conversations 90:7, 94:16, 150:16 convey 227:7, 227:8, 227:18, 227:19 conveyed 227:16, 227:17 cook 75:19 coordinator 149:24, 152:1, 152:19, 250:11, 250:16, 253:10, 254:4 coordinators 250:18 copier 257:21 copper 104:20, 196:4, 196:5, 196:6 copper-jacketed 246:7	copy 266:21, 267:6 corner 159:23 corrected 120:18 corrections 268:6 correctly 89:1, 109:10, 260:17 correlate 215:7 correspond 122:16, 169:11, 169:15 corresponded 97:21 correspondent 140:16 corresponding 173:5 corresponds 102:7, 104:11, 104:14 could 74:5, 76:23, 77:4, 88:6, 90:19, 90:24, 92:24, 93:12, 93:13, 93:14, 96:9, 99:24, 102:3, 105:6, 117:8, 117:11, 117:12, 118:2, 118:4, 122:23, 124:7, 130:22, 130:23, 130:24, 133:20, 133:22, 133:23, 134:15, 158:19, 170:5, 175:8, 192:8, 195:24, 198:6, 212:7, 221:21, 235:8, 240:24, 242:6, 242:11, 245:9, 246:12, 255:4, 255:11,	256:5, 267:1 could've 134:17, 139:7, 140:17, 155:12, 170:5, 170:24, 218:18 couldn't 96:3, 96:10, 103:6, 135:14, 248:11 counsel 67:5, 68:14, 68:20, 70:11, 190:7, 219:21, 246:11, 247:13, 257:16, 260:9, 269:9 counter-clockwise 99:11 counties 78:20 counting 145:14 country 225:3 counts 84:9, 145:9 county 75:20, 78:17, 144:8, 257:9, 257:22 couple 79:10, 260:12 courses 154:11, 154:16 court 63:1, 63:22, 66:17, 69:2, 70:9, 70:13, 78:5, 112:15, 146:12, 146:13, 209:13, 218:5, 218:8, 219:9, 235:6, 238:24, 244:7, 244:13, 255:22, 269:1, 269:3 courtesy 137:21, 249:19	courthouse 75:21, 78:12 courtroom 146:22 cover 128:11 covered 150:17, 184:16 create 110:11, 110:15, 209:9 created 119:12 creates 119:9 creatures 222:8 crime 71:20, 130:1, 130:3, 223:4, 223:11, 225:4, 261:8, 262:3, 262:8 criminal 146:24, 233:20 criminalistics 233:9, 233:15, 233:21 critical 104:24 cross 66:13, 66:14, 260:14, 263:7 cross-hatched 121:2 crossed 192:7 crucial 122:13 culbertson 64:19, 67:13 curious 124:18 current 249:22, 250:1 currently 82:1, 206:19, 245:12, 249:21
---	--	---	--

curriculum 66:10 custody 98:11, 98:12, 125:23, 126:14, 160:1, 172:22, 173:3, 216:24 cut 86:7, 99:9 cv 249:9, 249:15, 249:16, 249:22 cvs 249:18	247:7 daniel 65:9, 149:23 danny 149:5, 149:8, 149:11, 149:12 dark 200:22 darker 160:22, 169:13 database 134:11, 134:13, 135:2, 135:20, 138:11, 140:6, 140:7, 140:8, 192:6, 192:14, 193:5, 195:11 date 63:16, 98:7, 162:8, 174:7, 174:11, 176:17, 176:20, 177:4, 177:14, 177:20, 179:23, 179:24, 180:10, 180:12, 181:2, 181:3, 186:2, 186:4, 188:24, 190:21, 198:9, 268:13 dated 168:14, 180:10, 189:11, 210:17 dates 173:4, 173:5, 174:19 david 65:20, 67:10 day 76:21, 76:23, 77:15, 88:7, 88:8, 162:1, 162:12, 233:20, 257:23, 257:24, 258:1, 258:5, 258:6, 269:13 days 85:22, 161:8, 161:23, 171:8	dbg 180:15 deal 73:2, 80:8 death 95:10 december 243:18, 244:7 decide 153:1 defect 118:3, 118:8, 118:17 defend 257:10 defendant 68:23, 147:23 defendants 63:11, 67:14, 68:1, 68:24, 148:15, 150:8, 150:18, 150:23, 151:6, 159:6, 210:7, 210:16, 249:10, 256:10 defense 150:18, 158:15, 158:20, 210:22, 260:8 define 101:6, 128:15 definitely 180:16, 188:9 definition 100:17 degrade 127:13 degree 259:13 delivered 163:18 delivering 164:13 demon 113:6 demonstrative 112:14, 113:7 department 81:9, 81:13,	87:4, 155:6, 161:15, 168:8, 194:16, 209:4, 232:24, 233:8, 233:14, 238:18, 239:10, 265:17, 265:23, 266:2 departments 238:13, 255:9 depend 76:13 depending 88:18, 96:3, 108:14, 130:21, 246:9 depends 117:21 deponent 66:16, 68:4, 268:1 deposed 147:4 deposition 63:14, 68:22, 70:1, 70:5, 143:13, 146:2, 146:19, 148:12, 148:14, 212:16, 212:18, 249:13, 267:14 depositions 147:1, 147:2, 147:17 derr 200:1, 200:4 derra 199:19 derringer 200:4 describe 187:11, 234:10 described 136:7, 179:15 describing 75:5, 99:6 description 91:14, 91:17, 160:11, 177:10,
--	---	---	---

177:11, 188:11, 189:3, 198:13 descriptions 207:10 descriptive 202:21 design 100:23 designates 179:1 designed 258:16 despite 262:4 detail 183:11, 183:13, 183:23, 207:2, 220:11, 220:15, 221:4, 226:13 detailed 221:14, 221:16, 221:24, 224:10 detectives 80:10, 94:17, 95:1 deteriorating 246:4 determination 122:2, 131:16 determine 105:6, 133:1, 155:17, 245:9 determining 89:19, 116:11 developed 233:18 diagram 203:19, 203:20, 220:11 diagramming 184:2 diagrams 184:3 diameter 99:21 difference 104:5, 259:9 differences 130:20, 145:3	different 74:22, 94:4, 101:8, 101:9, 102:2, 102:3, 104:17, 104:18, 104:19, 109:4, 119:19, 121:4, 122:14, 127:19, 130:11, 130:12, 137:12, 142:24, 144:23, 145:2, 145:6, 170:2, 172:21, 174:11, 191:9, 191:15, 210:21 differently 109:2 digital 215:1 dimensions 102:4, 134:13, 195:20 dinner 232:8 direct 66:3, 69:18 directing 151:2 direction 100:1, 100:15, 269:8 director 79:20, 79:21, 80:2, 80:5, 80:19, 81:4, 83:9, 86:21, 87:10, 90:1, 148:23, 150:6, 151:21, 153:2, 153:24, 231:4 directors 223:4, 225:5, 232:12, 232:13 disagree 96:18, 96:23 disagreeing 255:23 disagreement 226:9	disappear 246:1 discern 133:18, 256:14 discernable 259:9 discharge 203:12 discharged 98:22, 178:6 discipline 257:10, 257:11 disclose 150:15 discuss 146:18, 146:19 discussed 122:3, 146:18, 146:21, 181:21, 182:2, 196:22, 218:1 discussing 243:23 discussion 115:8, 132:5, 152:11 distance 115:3 distinct 91:4, 135:19 distress 262:9 district 63:1, 63:2 dobbert 257:8 document 125:23, 158:14, 158:23, 159:17, 159:18, 160:8, 167:14, 217:4, 217:11, 218:2, 220:2, 247:15, 263:23, 264:5 documentation 97:9, 112:7, 112:8, 112:9, 112:12, 146:13,	204:2, 218:9, 221:5, 221:23, 227:20, 228:17, 228:19, 229:2, 264:11 documented 184:6 documenting 263:11 documents 146:5, 146:8 doing 71:12, 72:21, 80:22, 81:1, 84:19, 84:23, 86:12, 86:18, 87:20, 87:21, 87:23, 88:8, 89:7, 95:20, 96:17, 97:5, 97:9, 103:9, 110:8, 119:14, 124:1, 125:1, 136:14, 153:22, 153:24, 154:13, 156:16, 156:17, 157:17, 192:12, 218:10, 248:4, 248:5, 249:1, 249:24, 251:20, 251:23 don 87:3, 87:15, 87:18, 88:4, 155:4, 155:24, 156:23, 157:9, 157:24, 198:1, 233:3, 233:4, 233:19, 233:24, 234:10, 234:15, 234:19, 234:24, 235:23 donald 80:17 done 74:13, 84:13, 84:20, 89:22, 91:10, 95:24,
---	---	---	---

99:12, 101:7, 105:11, 112:6, 124:21, 125:18, 134:2, 134:4, 136:15, 136:22, 137:2, 137:24, 147:1, 147:2, 152:7, 152:8, 193:16, 206:10, 206:11, 218:6, 218:9, 219:10, 220:4, 220:5, 225:16, 225:18, 225:19, 244:3, 258:7, 265:9 door 72:14, 72:18, 222:17 double 203:11 double-action 203:1, 203:2, 203:9, 203:14, 204:15, 204:22 doug 64:34, 67:19, 261:3 down 85:24, 98:2, 98:6, 98:23, 99:1, 110:22, 111:2, 111:7, 111:11, 113:7, 156:9, 157:15, 160:24, 168:18, 177:10, 179:8, 180:11, 181:17, 191:23, 193:24, 194:1, 195:7, 199:8, 199:10, 199:11, 203:15, 203:24, 204:6, 204:12, 227:24, 228:3, 250:8 dr 80:17 draw 183:19, 183:22	drawing 183:20 drawings 178:12 drawn 203:24 drinks 232:7 drive 65:15 dropping 94:17 drug 152:20, 152:23, 235:21, 235:22 dry 86:7, 127:21 drywall 175:9 duces 111:20 due 118:3 duly 69:16 duplicating 114:2 during 72:8, 81:2, 81:3, 131:4, 131:7, 213:18 duties 153:9, 155:20, 156:5, 156:11, 156:17, 253:2	156:9, 165:10, 192:6, 204:17, 215:22, 216:2, 218:19, 218:20, 226:4 early 74:8, 85:22, 86:14, 89:5, 94:14, 95:22, 112:18, 218:2, 264:19 earth 101:17, 129:17 easier 69:2, 108:20, 159:4 east 78:18, 95:6 edena 257:17 education 75:12, 154:16, 255:5, 257:13 effect 142:11 effort 114:3 eight 99:24 either 86:8, 99:10, 105:11, 113:15, 212:24, 221:1, 223:3, 226:5, 262:1 ejection 203:16, 203:19 ejector 117:1, 121:7, 121:11, 121:17, 123:8, 123:12, 123:18, 203:21, 204:7 ekedahl 65:20, 67:11 elaborate 72:23 electronically 266:21, 267:2,	267:11 eliminate 102:13, 102:19, 102:21, 102:23, 130:18, 130:22 eliminated 131:22, 140:10 eliminates 103:5 elimination 93:6, 93:8, 93:22, 93:23, 94:1, 101:14, 101:19, 123:20, 129:20, 131:11, 241:21 elliptical 117:12, 118:5 else 100:4, 138:9, 145:12, 155:1, 156:20, 166:20, 218:3, 237:16, 241:6, 265:18, 265:23, 266:19 eludes 77:3 email 66:7, 210:8, 210:17, 210:18, 217:10, 243:13, 243:23 emeritus 143:18, 143:20, 143:21 emily 161:10 emotional 262:9 employed 269:9 employee 262:3, 262:8 employees 80:7, 261:9, 261:10 enable 245:12
--	--	--	---

enables 140:6	epoxy 119:17	150:2, 150:23, 184:6, 200:16, 211:21, 218:5, 232:7, 237:1, 237:3, 237:5, 245:23, 246:8, 254:7, 254:11, 255:18, 255:22, 261:5, 261:9	135:23, 136:2, 136:5, 136:6, 136:11, 136:19, 136:23, 137:13, 165:20, 166:2, 166:3, 166:19, 166:21, 167:1, 192:13, 193:12, 209:14, 212:13, 213:4, 217:4, 217:12, 218:6, 237:1, 241:19, 244:13, 244:20, 245:9, 247:18, 248:10, 256:8, 260:14, 263:7, 264:12, 264:19, 264:23, 265:14
enact 83:11	erin 67:22, 262:15, 262:23, 263:1	evera 65:13	examinations 80:22, 135:11, 157:17, 237:9, 263:12, 263:24, 264:6
enacted 83:16	errata 268:7	every 131:24, 246:23	examine 97:17, 115:1, 173:3, 217:2
end 118:8, 131:12, 235:8, 250:4	erroneously 120:13	everybody 145:12, 219:20, 250:17	examined 69:16, 137:11, 138:5, 165:12, 176:17, 206:2, 268:4
ended 248:20	esquire 64:3, 64:9, 64:18, 64:27, 65:3, 65:12	everyone 67:4, 68:6, 70:4, 115:22, 267:11	examiner 74:14, 74:20, 75:11, 78:3, 83:22, 84:2, 84:3, 85:2, 85:3, 86:8, 86:10, 88:2, 88:8, 89:7, 90:1, 91:10, 93:5, 94:9, 96:6, 96:19, 97:4, 108:21, 109:19, 110:8, 124:6, 124:11, 124:15, 131:15, 132:16, 135:16, 136:22, 139:12,
enforcement 237:6	essence 257:19	everything 70:13, 88:14, 89:13, 95:18, 98:15, 125:23, 143:9, 164:18, 212:18, 251:3	
engraved 205:23	establish 109:22	evidence-to-evid- ence 122:21, 122:22	
engraving 205:24	estates 67:10	evidentiary 175:8	
enough 88:23, 143:8, 153:7, 153:14, 188:20, 192:13	et 63:9	ex 66:5, 66:6, 66:7, 66:8, 66:10	
ensued 244:4	evaluations 80:6	exact 128:21, 130:11	
enter 192:13, 193:13, 247:24	even 107:6, 135:15, 155:19, 218:10, 229:2, 247:6, 250:4	exactly 90:4, 103:2, 248:3	
entered 140:11, 140:19, 141:3, 142:19, 213:14, 213:15, 213:17, 214:4, 215:6	ever 91:24, 94:16, 94:19, 94:24, 96:18, 96:20, 96:23, 106:15, 107:3, 107:7, 118:9, 126:23, 127:12, 131:20, 132:15, 133:15, 135:21, 136:7, 137:1, 137:5, 137:10, 137:11, 137:13, 138:2, 138:19, 138:20, 138:22, 139:1, 139:5, 141:2, 141:11, 141:15, 141:19, 144:10, 144:14, 147:23, 148:2, 148:4,	exactness 129:1	
entering 213:23		examination 66:3, 66:13, 66:14, 66:15, 69:18, 76:11, 97:6, 110:9, 116:10, 134:8,	
enters 187:18			
entries 139:22, 139:23			
entry 195:8, 195:10, 213:18			
enumerated 95:13			
envelope 198:15, 198:16			
ephani 68:9			
epoxied 119:4			

144:1, 144:6, 145:22, 149:1, 151:24, 152:18, 153:3, 153:22, 154:6, 154:8, 154:24, 156:19, 166:14, 166:16, 177:18, 198:4, 198:7, 211:13, 211:16, 219:9, 226:18, 234:2, 234:16, 235:3, 235:11, 235:20, 236:5, 236:14, 238:4, 238:22, 240:20, 240:21, 240:23, 241:5, 241:11, 241:15, 242:5, 252:22, 253:5, 253:23, 255:21, 256:4, 264:10 examiner's 124:22 examiners 87:19, 92:2, 96:4, 96:8, 127:6, 128:12, 156:6, 234:8, 252:3, 252:23, 265:4 examining 241:5 example 118:15, 119:1, 126:23, 183:17, 228:19, 237:12, 254:11 example-to-fired 129:15 examples 134:20, 237:20, 240:18, 241:4, 241:8, 241:10, 241:14 exams 236:23 except 249:23	exclude 246:12 excluding 247:9 exclusion 129:13, 129:14, 130:23, 131:19, 131:23, 264:16, 265:2 exclusive 224:22, 225:8 excuse 86:22, 114:19, 117:16, 121:16, 137:22, 152:5, 154:14, 167:22, 225:13 exhibit 158:5, 158:10, 158:14, 167:3, 167:6, 169:7, 169:8, 169:12, 169:15, 169:19, 169:20, 170:12, 170:17, 171:18, 171:23, 171:24, 172:1, 172:4, 173:12, 173:15, 173:17, 173:19, 173:20, 173:21, 174:3, 174:6, 174:10, 176:19, 179:10, 179:14, 179:15, 179:19, 185:12, 189:4, 189:15, 190:16, 196:15, 197:12, 197:14, 197:19, 210:3, 210:6, 210:16, 212:4, 212:6, 212:7, 212:8, 212:9, 213:4, 213:7, 214:5, 214:17, 219:16, 220:2, 220:3, 224:6, 243:4, 243:7, 243:8, 243:9,	243:10, 243:13, 243:17, 243:23, 244:5, 244:22, 244:23, 246:13, 248:12, 249:5, 249:9, 256:7, 256:23 exhibits 66:1, 167:17, 167:23, 167:24, 168:22, 169:9, 169:20, 170:14, 170:17, 172:6, 176:18, 213:14, 245:7, 246:13, 267:2 exist 75:22 existed 79:7 existence 223:7 expand 80:1 expect 107:24, 123:5, 142:20, 142:22, 143:7, 172:15, 172:17, 173:4, 173:6, 174:19, 177:6, 177:7, 177:9, 186:4, 198:10, 215:22 experience 120:6, 126:4, 131:14, 135:21, 137:10, 139:20, 139:23, 157:3, 229:19, 250:3, 258:4, 258:8, 264:4, 264:9 experienced 124:6 expert 147:15, 147:21, 255:23, 257:4 experts 146:24, 190:9,	210:22 expires 269:23 explain 244:8, 244:14, 245:14 explained 195:21 extra 74:12, 75:10 extractor 117:1, 121:8, 121:12, 121:19, 123:15, 123:19, 203:22, 204:7 eye 80:24, 83:18 eyeball 215:16 eyes 83:7 <hr/> F <hr/> fabricated 261:22, 262:1 face 77:4, 123:13, 207:8, 258:24 fact 83:6, 84:13, 84:18, 98:20, 111:15, 120:11, 132:2, 135:1, 142:23, 193:20 facts 231:6, 254:17 fair 72:20, 93:4, 97:2, 97:8, 102:12, 125:5, 136:1, 149:13, 149:15, 162:20, 162:24, 179:2 fairview 139:10 fall 154:20, 204:22, 204:23
---	--	--	---

falls 118:18 false 259:15 familiar 128:2, 147:3, 180:13 family 232:20, 232:22, 234:2 far 85:22, 91:14, 102:4, 106:14, 109:13, 113:2, 113:3, 114:2, 120:6, 122:17, 123:14, 125:17, 135:13, 140:16, 155:20, 172:20, 208:10, 227:19, 228:5, 228:17, 230:5, 239:5, 250:17, 261:15 father 232:23, 233:1, 234:8, 234:10, 234:22, 235:18 fault 162:3 fbi 134:11, 135:3, 138:8, 152:9, 152:21 fd 257:20 february 233:5, 233:7, 233:13 federal 70:6 feel 71:1, 71:8, 82:17, 84:16 fell 222:14, 254:5, 255:1 fellow 143:15, 144:1	felt 81:10, 82:24, 84:19, 240:16, 258:6 few 70:2, 79:14, 82:10, 82:14, 96:12, 100:16, 125:24, 146:16, 147:2, 159:13, 220:6, 256:9, 256:12, 260:21, 263:9 fewer 156:5 fiber 175:9 figure 234:11 figures 234:9, 236:1 file 117:24, 212:17, 216:24, 217:2, 255:1 filed 117:19 files 79:8, 250:19, 250:20, 252:6, 252:14, 252:18, 252:19, 252:21, 252:22, 253:8, 253:22 filing 101:8 fill 172:24, 192:12, 192:15, 193:2, 193:3 filled 174:1, 180:9, 193:14, 195:20 film 128:2, 160:12, 160:13, 160:14, 174:23, 190:24, 207:10	financial 269:10 find 88:15, 89:14, 89:17, 118:24, 204:10, 218:17, 248:23, 254:4, 254:7, 265:18, 266:2 finding 176:5, 176:8, 196:14, 254:11 findings 167:24, 173:9, 188:14, 196:10, 224:5 fine 91:3 finish 76:21, 89:4, 99:3, 100:8, 143:6, 199:20, 199:21, 199:24, 200:11, 200:24, 240:22, 241:16 finished 74:7, 74:8, 157:7, 180:12, 241:6 finishes 104:20 finishing 117:16, 241:11 fire 71:19, 73:8, 102:8, 103:18, 103:21, 105:2, 105:22, 106:19, 122:15, 156:12, 178:9, 182:4, 182:24, 200:6, 203:5, 246:21, 258:23 firearm 71:12, 71:23, 71:24, 72:2, 72:8, 73:1, 73:6, 73:8,	73:16, 73:21, 81:13, 94:24, 100:11, 101:10, 106:8, 109:12, 131:15, 136:8, 136:9, 161:13, 168:6, 169:21, 170:1, 171:7, 171:15, 171:18, 189:3, 196:24, 197:3, 197:14, 211:13, 213:6, 238:11, 238:17, 258:11, 258:12, 258:17, 258:24 firearms 73:9, 73:10, 82:9, 82:14, 83:16, 84:12, 85:2, 85:3, 87:19, 98:3, 100:20, 119:16, 132:15, 134:23, 149:1, 154:24, 155:1, 161:9, 164:2, 164:7, 166:14, 166:15, 170:7, 172:19, 233:9, 234:1, 236:5, 236:14, 257:11, 265:4 fired 72:22, 83:24, 85:20, 88:20, 90:15, 90:18, 93:10, 93:12, 93:14, 98:22, 99:16, 101:18, 102:17, 103:7, 104:10, 105:20, 106:11, 106:21, 106:24, 108:2, 108:8, 108:11, 108:15, 108:23, 109:7, 109:24, 121:11, 122:17, 122:20, 122:24, 123:2, 126:22,
--	---	---	---

<p>129:18, 130:12, 130:13, 131:24, 132:8, 132:14, 133:1, 133:4, 133:12, 133:13, 133:16, 133:19, 133:20, 133:23, 134:15, 134:17, 138:1, 139:24, 140:1, 140:7, 140:9, 140:17, 142:16, 160:15, 165:21, 166:10, 169:4, 173:17, 173:19, 173:20, 179:9, 179:19, 181:20, 184:6, 185:11, 190:17, 193:6, 195:3, 209:6, 209:18, 209:19, 210:1, 212:4, 212:6, 212:10, 213:6, 214:11, 214:14, 215:24, 216:20, 224:6, 236:23, 241:20, 242:7, 242:12, 244:23, 246:13, 247:8, 251:11, 252:7, 258:17, 259:19</p> <p>fired-bullet 85:8, 97:17, 101:12, 104:15, 108:1, 127:12, 128:3, 130:18</p> <p>fires 106:8, 106:20, 106:21, 106:23, 116:12, 121:10, 183:9, 184:3, 184:5, 189:17, 214:13</p> <p>firing 85:11, 85:15, 116:23, 117:3, 117:5, 117:15, 117:17, 117:18,</p>	<p>118:6, 121:15, 121:22, 123:11, 202:24, 203:6, 203:20</p> <p>firings 103:10, 105:4, 181:20, 214:4, 216:21</p> <p>first 75:1, 75:2, 78:16, 87:14, 97:23, 107:2, 110:3, 116:9, 124:1, 143:12, 160:3, 160:5, 160:10, 162:19, 167:15, 168:14, 169:8, 170:6, 171:4, 171:10, 173:10, 173:23, 173:24, 181:22, 197:1, 210:19, 212:16, 218:21, 225:3, 225:12, 225:14, 238:12, 247:3, 249:13, 250:3, 250:4, 250:9, 257:24, 258:5</p> <p>five 75:2, 79:18, 99:24, 115:21, 129:15, 129:16, 134:18, 250:18, 252:4, 252:5, 252:14, 252:18, 252:19, 252:21, 252:22, 253:8, 253:22</p> <p>five-minute 219:18</p> <p>fix 255:10</p> <p>flags 86:6</p> <p>flat 117:8, 117:9, 118:5</p>	<p>flip 121:19</p> <p>floor 64:12, 65:6</p> <p>florida 63:24, 199:9, 201:5, 269:4, 269:21</p> <p>flyer 152:21, 152:23</p> <p>fmj 205:8</p> <p>folks 81:22</p> <p>follow-up 220:6, 262:14, 262:24, 265:12, 265:13</p> <p>followed 245:5</p> <p>following 162:11, 164:21, 165:1, 223:16</p> <p>follows 69:17</p> <p>foregoing 268:4, 269:5</p> <p>forensic 73:18, 73:19, 74:2, 74:17, 76:1, 76:4, 78:3, 80:21, 80:22, 82:12, 82:17, 83:3, 84:16, 86:16, 92:2, 96:24, 116:10, 119:7, 119:15, 135:16, 136:11, 143:16, 153:2, 153:21, 154:6, 154:8, 156:5, 156:19, 185:18, 185:23, 190:19, 193:11, 197:24, 210:23, 218:6, 219:9, 225:2, 225:13, 233:16, 234:15,</p>	<p>235:20, 236:2, 238:4, 238:18, 238:22, 240:21, 241:5, 245:1, 245:8, 253:5, 253:23, 255:21, 256:4, 258:12, 264:23</p> <p>forensics 151:23, 264:9, 264:19</p> <p>forgot 231:19</p> <p>form 97:20, 97:21, 113:10, 128:22, 215:9, 217:6, 217:13, 219:2, 227:10, 230:12, 230:21, 239:12</p> <p>formal 146:9, 146:10, 146:12, 146:13, 193:9, 218:9, 244:3</p> <p>formally 67:18, 71:15, 87:4</p> <p>former 148:24, 231:3</p> <p>forms 129:7</p> <p>forrester 65:19, 67:10</p> <p>forth 123:17, 201:22, 253:4, 257:14</p> <p>forthright 76:16, 76:17</p> <p>forward 95:19, 203:12, 204:22, 204:23, 205:1</p> <p>found 94:10, 94:11, 120:10, 124:12, 124:13, 173:12, 184:9, 185:7,</p>
---	---	--	--

<p>213:4, 213:5, 247:16 foundation 82:19, 191:11, 217:7, 217:14, 219:3, 219:12, 226:24, 230:12, 230:21, 231:8, 264:2 four 83:7, 93:14, 163:4, 163:10, 163:15, 171:8 fourth 212:12, 213:2 fragment 169:3, 173:12, 175:12, 175:15, 175:16, 213:21 fragments 160:13 frame 201:21 free 71:8, 204:19 freezing 144:12, 146:2 friday 63:16 friend 231:24 friendly 238:19, 238:24, 239:2 front 98:20, 159:10, 167:9, 168:11, 174:12, 174:14, 185:16, 224:4 froze 157:4 frozen 144:11 fs 185:17, 185:18, 185:21, 185:22, 198:6, 245:7 fsbw 197:21</p>	<p>fsps 185:15, 190:19 full 86:18, 88:7, 88:8, 89:7, 101:19, 136:11, 137:2, 137:3, 137:13, 166:3, 166:6, 166:24, 187:24, 196:4, 242:6, 247:18, 248:10, 252:14, 253:23 full-time 166:14 further 133:15, 136:24, 230:17, 266:5</p> <hr/> <p>G</p> <hr/> <p>gallardo 64:23, 67:15 gary 65:19, 67:11 gave 162:4, 162:8, 162:24, 209:12, 237:15, 239:15, 263:11 gen 67:14 genens 64:24, 67:15 general 65:4, 76:19, 134:12, 154:14 generally 88:5, 92:15, 94:16, 94:21, 95:2, 95:5, 106:16, 107:8, 127:22, 159:19 generate 134:7 genes 162:4, 162:8 getting 100:13, 109:17,</p>	<p>202:21, 212:15 getty 161:3, 161:4 gg 269:22 ginc 199:13 give 119:1, 133:15, 137:19, 183:17, 183:22, 194:4, 194:8, 194:10, 209:17, 231:3, 237:1, 237:5, 237:12, 237:20, 244:15, 263:1 given 147:18, 163:17, 241:24, 242:14, 268:6, 269:6 gives 134:14, 142:4, 142:9, 204:1, 219:9 giving 91:14, 237:3, 237:10, 239:10, 255:21 glock 255:16 glued 100:9 go 70:3, 86:11, 90:3, 90:7, 90:21, 92:22, 102:13, 104:4, 108:15, 120:6, 121:23, 132:13, 133:15, 136:10, 142:12, 152:16, 153:15, 156:1, 158:6, 159:24, 161:1, 161:24, 171:3, 171:10, 173:23, 176:14, 177:21, 177:23, 179:17, 189:22,</p>	<p>190:1, 197:3, 197:11, 197:14, 203:15, 205:1, 206:15, 206:16, 208:10, 216:14, 216:16, 220:15, 224:1, 232:5, 232:7, 238:24, 260:21, 262:24, 263:17, 266:16 god 77:3, 140:21, 252:23 god's 101:17, 129:17 goes 201:22, 245:14, 249:11 going 70:3, 70:15, 71:4, 80:13, 85:5, 93:5, 106:9, 108:22, 123:24, 135:22, 148:13, 150:14, 151:14, 154:15, 155:17, 156:13, 158:4, 158:13, 158:14, 161:1, 167:6, 177:10, 197:2, 197:8, 210:6, 223:7, 227:22, 243:7, 243:20, 256:7, 256:10, 256:20, 256:21 gone 70:3, 118:21, 124:23, 124:24, 171:1, 194:13 good 67:6, 67:16, 67:21, 69:20, 71:7, 77:19, 84:11, 96:15, 96:16, 116:2, 144:21, 144:24, 158:3, 190:7,</p>
--	--	--	--

193:21, 193:23, 194:14, 195:14, 195:15, 221:8, 234:2, 238:5, 238:12, 238:15, 238:18, 238:22, 239:9, 240:13, 256:6, 260:19, 260:20, 267:12 gotcha 256:17 gotten 141:2, 195:3 grab 156:2 gracious 153:7, 153:14 grain 205:5, 205:6 grains 175:1, 191:6 granular 121:3 gray 161:20, 162:3 grc 134:12, 138:7, 140:15 great 119:10, 167:12, 197:17, 233:6 green 101:17, 129:17 greg 64:24, 162:9, 162:12, 162:15, 162:23, 164:12 grip 202:1, 202:3, 202:7, 202:8 groove 129:7, 133:17, 134:6, 134:14, 187:1, 191:24, 192:5 grooves 99:9, 99:23, 100:15, 102:4,	134:18, 193:13, 195:20 ground 70:3 group 145:11, 147:11 groves 102:6 guess 160:22, 185:21, 199:9, 256:5 gun 85:11, 98:24, 99:1, 99:3, 99:10, 100:5, 100:9, 101:6, 101:7, 101:16, 101:18, 101:22, 101:24, 102:8, 102:18, 103:7, 107:1, 108:2, 108:22, 114:1, 119:3, 122:24, 123:1, 129:16, 129:18, 130:1, 130:3, 130:21, 130:23, 131:4, 131:8, 131:19, 132:24, 133:2, 133:5, 133:6, 133:10, 133:13, 133:14, 133:16, 135:24, 142:17, 171:5, 192:4, 192:9, 193:19, 193:20, 199:11, 199:14, 199:18, 201:6, 201:8, 201:20, 203:4, 203:12, 204:1, 204:5, 204:10, 204:17, 206:5, 207:21, 215:24, 236:24, 255:9, 255:13, 259:11, 265:18, 266:2 gunnell 65:9, 66:6,	66:9, 68:1, 87:3, 87:17, 96:24, 148:17, 149:9, 149:10, 149:22, 154:23, 156:19, 157:2, 157:7, 166:24, 167:7, 167:8, 168:2, 168:16, 173:2, 177:24, 181:22, 182:3, 182:16, 184:8, 184:21, 189:19, 208:14, 208:17, 211:6, 213:4, 226:20, 229:18, 230:8, 230:17, 231:21, 231:23, 233:3, 233:4, 233:20, 233:24, 234:10, 234:15, 234:19, 234:20, 234:24, 235:23, 236:10, 236:12, 242:9, 243:18, 244:6, 244:8, 244:11, 244:14, 245:14, 247:7 gunnell's 157:21, 158:2, 169:19, 170:16, 172:8, 173:8, 173:24, 210:24, 220:3, 222:11, 227:5, 232:20, 233:1 guns 118:9, 119:19, 130:10, 130:12, 130:13, 130:19, 130:24, 131:19, 132:1, 133:19, 133:20, 133:22, 133:23, 135:2, 138:9, 156:12, 193:6, 199:10, 246:20, 255:10 guy 84:10, 164:7,	234:1, 234:2, 240:2 guys 115:14 gypsum 175:9 gyroscopic 99:12 <hr/> H <hr/> h-u-n-t-o-n 77:18 habit 222:8 hair 175:9 half 257:23 hammer 203:1, 203:11, 205:1 hand 69:8, 207:6, 207:7, 269:13 handed 85:24, 162:12, 240:23 handle 126:5, 126:8, 126:9 handled 207:17, 246:1 handling 126:1 handwrite 181:1 handwriting 164:20 hanson 64:24, 67:14, 162:9, 162:12, 162:15, 162:23, 164:12 happen 118:10, 130:3, 130:5, 130:24, 171:14, 182:18, 215:17
---	---	---	---

happened 129:24, 137:5, 165:14, 172:20, 233:7, 256:1 happening 120:16, 139:1 happens 122:14, 141:6, 194:3 hard 74:12, 146:10 harder 73:2, 73:3 hartford 161:21 hatched 229:4 hathaway 64:4 head 178:13 headquarters 75:20 hear 68:11, 248:19, 248:23, 262:19 heard 120:16, 127:12, 136:13, 137:15, 137:17, 138:2, 139:1, 165:10, 192:16, 193:15, 207:23, 208:11, 209:16, 237:10, 237:13, 246:3, 246:4, 246:8, 262:17 hearing 94:8, 207:20, 257:8 hearsay 192:16, 208:10 heights 139:10 held 115:8, 152:11 help 192:22	helped 119:15, 239:20 helpful 111:10, 158:21 here 67:22, 67:23, 68:3, 90:6, 92:18, 94:12, 105:14, 111:23, 158:16, 159:15, 161:2, 167:13, 168:14, 168:19, 169:16, 171:17, 173:5, 173:16, 175:11, 176:7, 177:24, 178:11, 182:7, 182:10, 188:11, 191:16, 198:18, 200:8, 210:18, 222:10, 231:2, 231:5, 242:2, 250:8, 263:18 here's 182:24, 206:22 hereby 268:3, 269:4 hereunto 269:12 high 120:18, 142:10, 142:20, 142:22, 142:23, 214:14 high-confidence 142:5, 143:1, 216:2 high-point 119:16 higher 191:5, 207:8, 222:5, 225:8, 225:9 himself 70:10, 244:15 hinshaw 64:19, 67:13 hired 147:6, 257:9	history 130:23, 249:4 hit 141:2, 141:5, 141:7, 141:16, 141:23 hobby 105:12 hold 197:5, 202:13, 204:20, 204:23 holder 91:5 holding 204:5 holds 202:5 home 257:21 homicide 168:19, 244:20 hooper 64:4 houde 64:24, 67:14 hours 163:12 howard 65:19, 67:10 however 83:24, 134:16, 217:1 huh 185:20 hundred 96:12 hundreds 96:10, 96:12, 118:20, 141:1 hunter 234:24 hunton 77:18, 77:20, 88:7 hunton's 77:21 huotari 64:27, 66:13,	67:16, 67:17, 68:7, 115:24, 235:6, 243:12, 260:12, 260:13, 260:15, 262:11, 266:20 hypothetical 217:18, 217:19 <hr/> I <hr/> iasparro 64:18, 67:12, 215:8, 217:6, 217:13, 219:2, 219:11, 227:10, 227:11, 230:11, 230:21, 230:22, 231:8, 239:13, 239:14, 240:1, 260:6, 266:23 ibis 139:21, 139:23, 140:3, 140:20, 141:3, 141:12, 141:16, 141:21, 141:23, 142:4, 142:19, 142:21, 152:2, 152:3, 152:6, 152:22, 213:15, 213:23, 214:6, 214:12, 214:24, 215:6, 215:12, 215:24, 244:1, 248:2, 248:23, 249:1 ic 77:7 id 90:10, 181:5, 247:5, 254:11 idea 109:18, 119:23, 212:2 identification 72:4, 72:8, 73:1, 73:5, 73:6, 73:22, 85:17, 88:11,
---	--	---	--

88:16, 88:23, 89:15, 89:20, 90:6, 91:22, 92:5, 92:16, 93:15, 93:16, 93:18, 94:12, 96:20, 102:15, 105:21, 107:23, 111:16, 111:17, 111:24, 112:1, 112:7, 118:23, 118:24, 123:20, 124:3, 124:14, 128:16, 128:17, 129:12, 131:11, 140:4, 140:5, 141:10, 141:15, 141:20, 141:24, 142:2, 143:19, 145:7, 158:11, 167:4, 176:10, 182:10, 184:9, 184:23, 185:7, 188:24, 196:15, 208:24, 210:4, 212:5, 214:18, 227:14, 228:7, 228:9, 243:5, 245:1, 245:13, 247:10, 247:14, 249:6, 258:11, 259:8, 259:14, 264:20, 264:24 identifications 112:4, 120:8, 120:13, 144:23, 176:12, 255:22 identified 129:1, 141:16, 189:5, 197:2, 236:24, 244:22, 248:14 identify 101:24, 102:22, 120:2, 141:11, 242:6, 242:11, 246:12, 247:7, 259:11, 259:20,	259:24 identifying 110:10, 216:19, 254:11 illinois 63:2, 64:13, 64:21, 64:31, 65:7, 65:16, 68:1, 75:20, 150:1, 225:2, 225:12, 234:18, 236:16, 250:10, 263:14, 263:22, 264:4 imagery 140:6, 152:20, 152:24, 155:21, 215:1 images 140:6, 140:15 imaging 152:2 imp 191:24 impart 101:9, 117:20, 127:7 imparted 101:5, 118:8, 131:4 imply 145:14 importance 83:2, 122:3 important 70:12, 71:5, 108:13, 108:18, 109:5, 109:8, 109:19, 110:3, 110:5, 113:15, 126:12, 126:13, 171:14, 221:5 importer 100:5, 199:4, 199:7, 199:8, 201:4, 201:9 impose 225:8	impossible 246:6 impression 99:14, 106:15, 118:6, 121:15, 123:12 impressions 88:21, 116:23, 117:3, 117:5, 129:7, 133:18, 134:6, 134:14, 145:10, 187:1, 190:6, 192:5 improperly 207:17 inc 199:1 incidences 245:22 incident 84:15 incidental 105:19 include 113:18, 134:19, 165:3, 239:10, 249:23, 250:21 included 113:21, 138:10, 220:10 includes 162:18 including 184:3, 246:23, 247:1 inclusive 135:20 incomplete 217:18 inconclusive 93:20, 129:9, 129:10, 129:24, 130:7, 131:1, 131:2, 212:7, 246:16, 247:21, 248:12 inconsistent 174:22	incorporated 225:11 incriminate 262:4 independent 73:24, 74:20, 83:4, 97:5, 153:22, 160:6, 181:23 independently 74:21, 157:18 index 66:1, 106:17, 106:19, 108:18, 108:21, 109:2, 109:10, 109:18 indicate 110:17, 159:20, 161:13, 175:14, 175:16, 179:18, 206:4 indicated 95:8, 98:14, 101:15, 118:16, 120:18, 127:24, 138:7, 171:7, 191:19, 199:5, 199:8, 200:11, 206:6, 226:4, 238:3, 243:1, 247:18, 248:11 indicates 157:19, 160:11, 162:7, 162:11, 162:22, 163:8, 165:16, 167:16, 167:20, 176:18, 178:14, 178:23, 185:12, 189:4, 196:11, 196:18, 197:18, 202:9, 204:6, 204:13, 205:3, 205:11, 211:5, 211:9, 212:3, 216:18 indicating 84:2, 166:5, 191:5, 204:18,
---	---	---	---

207:5 indication 202:19, 204:24 individual 67:14, 76:20, 77:1, 83:5, 87:24, 101:3, 102:24, 103:12, 117:17, 119:10, 119:12, 119:24, 120:4, 120:14, 120:20, 122:5, 124:7, 128:18, 128:19, 129:4, 129:21, 130:6, 130:20, 147:7, 193:16, 194:5, 194:11, 206:5, 227:15, 227:18, 227:22, 230:4, 234:12, 237:14, 245:10, 245:12 individuality 118:1, 119:8, 132:23 individually 101:10, 127:2, 127:3 individuals 77:22, 81:9, 84:19, 105:11, 125:15, 136:13, 137:18, 145:11, 155:21, 193:16 industry 144:21, 265:4 influx 81:8 informal 194:2, 194:22, 195:13, 218:2, 218:6, 239:11 informally 136:15, 193:4 informals 218:11 information 192:13, 192:18,	201:4, 227:8, 240:15 initial 89:9, 89:22, 95:18, 98:5, 177:20, 180:16, 182:20, 183:5 initialing 84:1 initially 91:2 initials 98:7, 106:5, 176:24, 177:14, 177:19, 180:14, 180:17, 181:5, 181:6, 189:9 initiate 82:9 inject 74:5 innocence 208:2 inside 187:19, 187:21 insistently 106:12 inspection 161:14 instance 72:12, 91:24, 93:7, 93:23, 102:20, 106:10, 114:18, 192:4 instances 104:3, 127:6, 192:16 instead 70:19 instituted 83:20, 84:22, 85:1, 135:10, 135:13 instruct 150:15 instructs 70:23 insufficient 93:15, 129:11,	245:11 int 199:13 integrated 140:5 integrity 126:17, 258:10 intent 262:4, 262:9 inter 170:8 interact 234:15 interest 269:10 interesting 92:15, 92:17, 94:10, 124:12, 182:6, 184:19, 184:23 interlaboratory 170:8 international 143:19, 199:1 intervening 245:16 introduced 70:9 investigation 95:10, 95:11, 136:24, 137:3 investigative 135:10, 135:22, 135:23, 136:16, 137:22, 137:23, 192:23 investigator 138:3 involve 72:21 involved 84:5, 120:24, 137:22, 214:11, 244:20 involvement 236:19 ips 253:6	irregularities 101:5, 131:4 iso 223:7 isp 71:18, 75:5, 77:6, 77:8, 77:9, 77:10, 81:17, 82:4, 82:5, 82:18, 85:24, 112:3, 122:11, 126:7, 128:16, 161:18, 184:4, 193:10, 206:20, 210:7, 210:16, 220:14, 223:17, 224:17, 225:6, 225:24, 226:2, 241:15, 242:5, 243:22, 249:10, 252:2, 253:23, 254:13, 254:22, 254:23, 256:9, 256:10, 261:8 issue 195:5, 226:10, 253:17 issued 243:22, 243:24 it'd 117:8, 153:18 it'll 140:14 item 98:6, 106:5, 172:12, 182:19, 182:23, 213:11, 228:18 itemizes 167:18 items 72:17, 76:13, 78:24, 79:9, 90:16, 90:18, 92:3, 92:8, 93:5, 95:12, 110:10, 129:1,
--	--	--	--

160:5, 160:16, 160:21, 161:9, 162:3, 162:9, 162:12, 162:18, 162:19, 162:24, 163:22, 163:23, 164:10, 164:13, 164:16, 164:22, 164:23, 165:11, 165:12, 167:1, 167:22, 167:24, 170:21, 204:3, 206:7, 207:12, 224:6, 248:1, 250:8 itself 126:17, 177:22, 199:14, 215:2, 223:21	jim 64:23, 218:15, 218:17 joanne 217:10 job 70:15, 194:6, 247:24 joel 64:27, 67:17, 260:13, 266:20 john 64:24, 144:1, 144:4, 144:15, 144:16, 144:17, 162:4, 162:8, 211:1, 212:13, 241:19 join 68:11, 239:13 joined 71:18, 157:2, 233:8, 233:13 joining 68:8 joseph 244:6 journal 154:14, 257:20 judge 244:6 juliette 71:20, 75:15, 77:9, 77:11, 148:24, 150:4 july 70:2 jump 261:13 juncture 248:16 june 161:2, 161:8, 162:8, 162:23, 163:22, 168:24, 169:21, 170:23, 171:19, 172:13, 174:8, 174:14,	174:23, 176:17, 177:4, 179:23, 186:2, 188:24, 189:11, 190:21, 196:15, 198:9, 208:23 juror 111:22	185:1, 185:6, 231:21, 232:23, 233:19, 234:22, 235:17 knowledge 144:20, 220:18, 237:2 known 67:18, 211:15, 245:23 kozar 67:23
J		K	L
jack 65:10, 68:2, 148:19, 150:3, 150:12, 161:4, 161:22, 161:23, 165:19, 166:1, 208:22, 216:19, 217:4 jacket 175:12, 175:15, 175:17, 187:24, 188:2, 188:7, 205:7, 205:12, 259:1 jacketed 104:23, 187:22, 196:4 jacketing 188:9, 246:10 jackets 175:19 james 64:33, 67:19, 168:20, 244:21, 261:2 jeff 64:24	join 68:11, 239:13 joined 71:18, 157:2, 233:8, 233:13 joining 68:8 joseph 244:6 journal 154:14, 257:20 judge 244:6 juliette 71:20, 75:15, 77:9, 77:11, 148:24, 150:4 july 70:2 jump 261:13 juncture 248:16 june 161:2, 161:8, 162:8, 162:23, 163:22, 168:24, 169:21, 170:23, 171:19, 172:13, 174:8, 174:14,	keep 80:24, 83:18, 146:2, 151:13, 177:10, 203:5 kenneth 63:21, 269:3, 269:20 key 99:15, 99:16, 107:20, 110:5, 110:6 keying 107:18 killed 265:18 kind 84:7, 98:16, 103:20, 104:6, 120:23, 136:2, 136:6, 153:19, 168:7, 192:11, 195:13, 200:9, 203:24, 204:4, 205:3, 210:20, 221:4, 223:7, 257:14 kindly 68:14 kinds 94:5, 122:15, 128:12, 130:24, 134:1, 135:10, 257:19 knew 130:22, 182:9,	lab 71:20, 75:16, 75:18, 76:1, 76:4, 76:12, 77:9, 77:11, 78:4, 78:23, 79:12, 79:20, 79:21, 79:24, 80:2, 80:5, 80:19, 81:4, 81:19, 81:24, 82:10, 83:9, 83:12, 83:13, 84:23, 86:20, 86:21, 87:6, 87:9, 90:1, 94:15, 112:5, 136:9, 137:12, 137:13, 137:14, 138:4, 138:21, 138:23, 139:6, 140:22, 140:23, 142:7, 144:8, 149:5, 149:18, 149:21, 150:2, 150:5, 151:20, 151:24, 153:2, 153:24, 154:22, 155:15, 156:21, 160:1, 163:5, 163:11, 163:12, 163:16, 163:24, 165:11, 165:12, 165:17, 166:7,

<p>169:12, 172:13, 172:14, 193:11, 205:18, 205:23, 216:22, 223:4, 223:11, 223:14, 224:20, 225:3, 225:4, 225:12, 231:3, 232:15, 232:17, 241:12, 261:8, 262:3, 262:8, 264:13</p> <p>labeled 169:2, 178:1, 210:7</p> <p>laboratories 78:15, 85:1</p> <p>laboratory 74:10, 82:13, 82:24, 95:12, 104:4, 112:23, 125:14, 126:2, 127:18, 127:20, 130:4, 159:22, 161:16, 161:17, 161:18, 161:21, 167:16, 167:18, 168:4, 168:23, 170:3, 176:15, 177:12, 177:16, 180:9, 220:15, 223:4, 225:5, 227:4, 235:17, 244:21, 245:8, 256:8, 264:10</p> <p>labs 252:2</p> <p>lack 219:11</p> <p>laid 96:19</p> <p>land 88:21, 99:14, 106:14, 106:15, 129:6, 133:17, 134:5, 134:14, 145:10, 186:24, 190:5, 191:24, 192:5</p>	<p>lands 99:23, 100:15, 102:4, 102:6, 134:18, 193:12, 195:21</p> <p>language 114:23, 135:5, 165:2, 165:3, 216:12</p> <p>large 63:24, 202:22</p> <p>larger 114:21</p> <p>last 112:5, 151:7, 199:6, 212:9, 243:12, 265:8</p> <p>late 86:13</p> <p>latent 170:6, 171:1, 171:10, 171:13, 172:14, 172:16, 198:3, 198:4, 198:6, 218:13, 218:22, 219:1</p> <p>latents 171:4, 171:5, 218:21</p> <p>later 68:8, 79:2, 111:10, 115:17, 136:9, 137:20, 161:8, 162:1, 162:2, 171:8</p> <p>latter 92:14</p> <p>law 237:6</p> <p>lawyer 146:18, 146:19, 147:7, 148:9, 148:12, 158:18</p> <p>lawyers 147:10</p> <p>lay 117:16</p> <p>layperson 200:15</p>	<p>lead 101:14, 104:22, 104:23, 136:16, 137:22, 137:23, 148:23, 175:19, 175:23, 192:23, 239:3, 246:5</p> <p>leadership 243:22</p> <p>leading 265:7</p> <p>leanne 161:20, 162:3</p> <p>learn 214:3, 215:5</p> <p>least 70:2, 216:1, 251:10, 252:6, 252:14</p> <p>leave 142:8</p> <p>leaves 127:17</p> <p>leaving 238:9</p> <p>led 228:7, 228:9, 238:9</p> <p>leff 64:9, 67:6, 67:7</p> <p>left 81:16, 87:17, 94:1, 99:11, 100:3, 101:17, 102:17, 103:6, 129:16, 142:7, 160:21, 245:15</p> <p>length 99:2, 100:10</p> <p>less 96:5, 107:13, 124:6, 153:6, 153:13, 204:9</p> <p>let's 71:16, 79:14, 86:11, 94:2, 94:3, 97:13,</p>	<p>109:8, 116:18, 118:3, 120:22, 130:9, 130:10, 137:24, 141:1, 151:13, 153:10, 160:10, 162:17, 167:6, 167:13, 168:12, 169:7, 173:8, 173:23, 176:14, 182:4, 186:8, 191:17, 204:18, 218:13, 219:18, 249:23</p> <p>letters 226:21, 228:23</p> <p>level 73:16, 74:2, 74:17, 74:18, 74:23, 75:9, 76:1, 79:18, 79:19, 124:22, 183:11, 183:13, 220:15, 221:23, 222:4, 226:13, 226:14</p> <p>levels 75:4</p> <p>life 143:18</p> <p>lighting 91:6</p> <p>likelihood 255:13</p> <p>likely 209:7</p> <p>liking 239:6</p> <p>limited 97:24, 126:11, 127:20</p> <p>line 89:18, 90:24, 92:3, 105:14, 106:8, 107:10, 109:11, 111:11, 129:20, 129:22, 162:7, 162:11, 168:22, 169:18,</p>
--	---	---	--

171:17, 176:20, 182:4, 182:23, 186:9, 187:5, 190:5, 190:18, 191:23, 195:7, 199:19, 202:18, 205:2 lined 92:8, 182:5, 189:23 lines 92:10, 94:11, 145:10, 161:2, 183:18, 183:19 lining 89:24, 92:18, 92:21, 92:23, 106:14, 109:17 linked 141:21 list 134:14, 140:14, 140:15, 142:4, 142:5, 162:19 listed 97:21 lists 170:14, 210:24 litigation 244:4 little 71:1, 76:15, 85:6, 94:7, 107:13, 109:2, 115:16, 118:14, 120:19, 124:5, 124:8, 125:21, 144:12, 153:8, 156:11, 183:16, 183:20, 183:21, 203:19, 220:20, 257:20 live 172:3, 172:4 llp 64:19, 64:28, 65:14 located 75:19, 203:21,	203:22 location 198:17 loevy 64:10 long 65:13, 76:10, 76:18, 88:10, 88:12, 88:15, 211:15, 211:16, 211:18, 231:21, 249:3, 256:9, 258:22 longer 76:15, 151:20, 152:24, 223:6, 245:21, 247:7 look 85:8, 86:5, 88:19, 88:20, 90:2, 90:6, 90:9, 90:10, 90:11, 90:20, 90:21, 91:2, 91:4, 91:7, 91:20, 92:9, 92:10, 92:14, 92:22, 92:24, 97:10, 99:3, 102:1, 102:8, 105:21, 106:9, 106:19, 106:23, 107:1, 109:19, 110:6, 111:5, 119:18, 120:3, 121:10, 121:15, 121:16, 122:19, 122:21, 122:22, 123:8, 125:2, 125:15, 132:18, 132:20, 141:8, 142:11, 142:14, 142:15, 159:13, 160:10, 162:17, 165:11, 167:10, 169:7, 171:22, 173:8, 173:9, 179:21, 179:22,	181:16, 181:19, 182:7, 182:12, 182:22, 183:1, 183:4, 184:8, 184:19, 184:22, 186:10, 189:20, 189:22, 190:11, 190:15, 200:14, 200:15, 200:17, 204:12, 206:8, 210:12, 212:20, 212:23, 213:18, 216:10, 234:6, 242:22, 243:1, 243:3, 244:19, 248:5, 249:8, 249:14, 255:14, 256:13, 259:22 look-see 83:4, 192:17 looked 74:19, 91:9, 93:5, 119:6, 124:23, 137:5, 138:20, 138:21, 166:9, 174:1, 181:10, 181:17, 182:5, 183:8, 185:2, 185:7, 206:7, 226:18, 227:20, 228:18, 244:1, 244:11, 259:6, 259:23 looking 78:24, 83:24, 85:19, 85:20, 86:10, 89:8, 89:13, 94:12, 97:3, 97:8, 97:9, 99:7, 103:12, 107:15, 107:16, 108:4, 109:6, 109:24, 110:3, 110:9, 111:5, 114:9, 114:21, 116:15, 116:19, 116:20, 116:22, 116:23,	116:24, 120:21, 122:4, 124:2, 124:11, 124:16, 125:6, 125:8, 125:11, 132:6, 135:23, 159:4, 170:11, 182:3, 203:24, 204:1, 213:22, 215:2, 215:20, 222:10, 227:3, 244:9, 249:22, 253:13 looks 111:22, 161:8, 162:2, 162:23, 164:4, 164:19, 205:15 loop 223:9 lost 197:5 lot 69:1, 69:4, 108:20, 119:9, 190:8, 190:9, 214:11, 236:22, 246:20 louis 78:18 low 142:11, 143:2, 143:4, 206:15, 214:15 low-confidence 142:4, 142:21 lower 201:20 luger 178:22 lunch 115:17, 151:11, 164:6, 232:18 lunchtime 164:5 <hr/> M <hr/> ma'am 72:1, 75:6,
---	---	---	--

75:17, 76:9, 78:2, 78:21, 81:18, 81:23, 85:9, 86:19, 87:11, 89:2, 92:19, 101:20, 103:11, 103:14, 103:19, 108:3, 116:14, 143:14, 168:21, 169:6, 171:16, 174:2, 175:21, 186:11, 191:3, 196:13, 196:20, 198:8, 198:20, 199:15, 200:10, 206:9, 210:14, 226:19, 231:22, 233:22, 257:3, 258:14, 259:3, 260:2 macanally 67:18, 261:1 machine 216:9 made 118:17, 120:8, 120:13, 139:22, 139:23, 141:20, 141:23, 142:2, 143:5, 147:14, 179:24, 180:24, 181:2, 195:5, 201:2, 213:19, 221:24, 247:4, 247:5, 248:7, 254:8, 255:22 magazine 171:24, 172:1, 202:5, 202:6, 202:14, 202:15, 202:17, 202:19, 202:21, 203:7, 203:8 magnification 114:11, 114:13, 114:20, 115:6, 207:8 maintain 126:14, 154:16	maintaining 126:16 major 117:13 make 70:15, 70:21, 72:18, 88:23, 97:20, 98:13, 102:14, 102:16, 103:1, 105:21, 122:1, 125:3, 129:11, 130:11, 134:10, 136:5, 141:15, 142:12, 144:23, 172:9, 178:16, 184:20, 187:7, 190:12, 193:4, 194:23, 198:23, 199:12, 215:19, 227:13, 228:7, 228:9, 244:13, 245:13, 248:10 makes 69:1, 69:4, 104:5, 108:20, 163:21 making 70:18, 85:15, 85:17, 97:12, 123:19, 131:15, 153:5, 153:14, 195:1, 261:13 malfunctioning 255:13 management 85:3, 238:8, 239:4, 239:6 mandated 82:11 manila 198:14 manipulate 90:18 manner 101:7, 196:21 manual 255:12	manufacture 200:20 manufactured 100:20, 105:15, 117:19, 119:3, 178:16 manufacturer 99:2, 99:24, 100:22, 104:12, 118:5, 118:18, 119:11, 133:19, 142:24, 143:1, 143:9, 178:22, 179:1, 191:15, 215:24, 255:9, 255:12 manufacturer's 100:23, 118:3, 178:17 manufacturers 102:3, 119:7 manufacturing 118:7, 118:18, 120:10, 131:5, 199:1 many 76:3, 78:7, 86:22, 95:23, 95:24, 100:20, 118:20, 140:19, 147:1, 147:17, 156:7, 252:23, 258:22 mark 64:25, 71:19, 104:17, 106:4, 106:6, 106:12, 108:10, 108:21, 109:18, 118:2, 118:21, 120:3, 126:10, 158:5, 158:14, 160:1, 167:6, 177:16, 204:7, 205:18, 210:6, 210:16, 243:7, 249:9, 256:7 marked 110:18, 158:10,	167:3, 205:20, 205:22, 210:3, 220:2, 243:4, 243:14, 249:5, 256:23 marking 109:9, 176:7 markings 91:15, 93:15, 105:19, 107:9, 107:10, 107:16, 107:17, 107:18, 107:21, 107:22, 107:24, 110:7, 116:21, 116:24, 117:1, 117:2, 121:14, 121:17, 121:19, 121:21, 121:23, 123:10, 123:11, 123:12, 123:15, 129:11, 147:14, 177:12, 178:17, 186:15, 188:20, 190:24, 198:17, 258:24 marks 72:18, 105:19, 106:17, 108:4, 116:15, 120:23, 120:24, 121:8, 121:12, 122:23, 123:4, 123:8, 123:19, 123:23, 127:7, 127:9, 177:12, 205:23 married 261:1 massachusetts 245:22, 257:5 master 216:23 match 101:13, 131:19, 141:3, 216:2 matched 116:11 matches 142:5, 190:12,
---	---	--	---

214:13 matching 101:23, 145:9, 190:5 matter 210:24, 211:22, 240:14, 243:2, 261:18, 261:23 maybe 96:10, 96:12, 109:9, 115:10, 115:15, 115:16, 120:17, 136:23, 177:20, 187:9, 187:10, 198:3, 221:2, 221:6 mayor 82:11 maywood 74:9, 75:15, 75:18, 75:20, 76:1, 76:4, 76:11, 78:4, 78:14, 78:23, 79:12, 84:23, 87:6, 225:17 mccarthy 64:28 mcclain 211:10, 211:12, 211:15, 213:8, 213:10, 213:13, 214:4, 215:6, 243:24, 247:13 mcclain's 211:1 mcgraw 244:6 mcintyre 217:10 mean 74:18, 77:7, 85:13, 93:8, 104:1, 109:9, 110:14, 111:6, 111:8, 111:11, 111:15, 114:3, 124:22, 125:16,	127:1, 131:3, 139:18, 145:2, 146:3, 146:22, 147:24, 149:8, 149:11, 154:19, 156:10, 156:16, 166:13, 166:15, 170:2, 172:18, 173:6, 176:23, 177:13, 182:9, 185:3, 185:14, 185:21, 186:23, 186:24, 188:16, 188:17, 190:8, 192:24, 195:7, 195:22, 199:20, 200:3, 200:15, 203:2, 205:19, 208:8, 224:24, 227:21, 232:18, 238:11, 238:17, 238:21, 252:12, 255:7 meaning 204:21 means 92:17, 94:11, 110:21, 114:20, 161:22, 191:19, 195:24, 196:2, 198:14, 202:13 meant 124:12, 209:24, 253:5 measure 133:17, 134:5, 192:5, 192:17 measurements 134:5, 192:2, 193:5 measuring 193:12 mechanisms 202:24 meeks 257:5 meet 144:18, 223:21,	224:12, 224:15, 230:19, 233:1, 233:4 meeting 150:16, 227:24, 229:19 member 143:15, 143:18 memorandum 66:8, 243:17, 244:5 memorialized 110:20, 110:21 memorializes 110:12 memory 233:6 men 255:10 mention 85:7, 237:8 mentioned 68:7, 85:5, 88:6, 103:16, 121:7, 124:9, 138:13, 143:12, 175:18, 192:6, 204:17, 220:8, 220:10, 223:11, 225:6, 229:3, 231:20, 237:9, 237:14, 238:2 message 163:3 messengers 94:22 met 144:10, 144:14, 222:11, 229:10, 229:15, 231:4, 231:11, 231:12, 233:19 metal 117:19, 117:20, 122:18, 143:6, 143:7, 175:23, 187:24, 200:18, 200:24	metals 104:17 method 144:23, 145:2, 145:6, 145:9, 145:12 miami 199:9, 201:5 michael 64:18, 67:12, 215:8, 227:10, 230:11, 230:22, 239:13, 260:6, 266:23 michigan 64:6 micro 111:13, 114:10, 121:4 micrographs 111:22 microscope 71:12, 71:15, 72:19, 83:6, 89:14, 89:19, 90:3, 102:11, 113:9, 113:16, 116:13, 134:2, 134:4, 141:20, 141:22, 142:3, 183:12, 184:8, 189:16, 206:7, 213:19, 214:22, 215:20, 228:8, 228:13, 242:10, 244:2, 244:10, 244:11, 248:5, 252:15 microscopic 83:23, 89:18, 101:5, 121:5, 122:5, 131:3, 134:8, 173:13, 254:8 microscopically 102:9, 129:8, 141:9, 142:15, 181:11, 251:12,
--	--	---	--

253:14 microscopy 80:24 middle 180:16, 189:9, 250:9 might 68:12, 75:10, 88:15, 89:20, 95:3, 106:15, 107:12, 122:16, 128:6, 135:2, 143:1, 185:17, 191:13, 192:12, 193:6, 198:1, 218:10, 240:18, 240:21 might've 96:4 millimeter 169:3, 170:19, 171:24, 172:1, 172:3, 172:4, 178:6, 178:22, 186:19, 191:4, 198:21, 244:22, 246:23 mimic 225:10 mind 70:17 mine 180:21, 180:22, 181:6, 194:18 minimum 220:18, 220:19, 221:10, 221:11, 222:5, 222:12, 222:22, 223:17, 224:12, 224:13, 224:15, 224:17, 225:6, 227:19, 227:24, 228:2, 229:7, 229:10, 229:12, 229:15, 229:20, 230:10, 230:18, 230:19, 231:4, 231:11,	231:12, 231:17, 254:5 minute 167:10, 171:3, 244:16 minutes 115:21, 159:13, 162:1, 256:12, 263:4 mischaracterizes 229:24 mishandling 127:7 misidentified 207:21 mismatched 92:21 misrepresented 257:15 miss 125:7, 125:10 missed 125:6, 157:10 missing 188:3, 188:7, 218:13 misstates 215:9 mistake 254:15 mistakes 254:7 mm-hmm 69:5, 72:24, 76:22, 78:13, 79:17, 80:20, 90:13, 91:1, 93:4, 96:7, 97:15, 99:17, 99:22, 102:5, 104:21, 106:18, 109:15, 109:21, 111:19, 113:11, 114:16, 121:9, 121:18, 123:3, 125:20, 126:3, 127:4, 128:14, 131:6, 133:3,	133:11, 141:14, 142:18, 168:17, 173:11, 173:14, 177:3, 177:5, 181:15, 189:1, 197:20, 203:17, 211:8, 212:11, 215:4, 216:13, 218:15, 246:15, 246:17 model 99:2, 130:11, 199:16, 244:24 modified 131:22 module 144:16 money 153:5, 153:14 month 76:7, 76:8, 154:18, 156:10, 252:9, 252:21, 253:1 months 70:2, 72:3, 72:5, 73:11, 74:7 more 74:18, 76:17, 77:22, 79:14, 85:6, 94:8, 96:5, 115:2, 118:14, 124:8, 139:24, 153:5, 153:14, 153:24, 157:3, 183:16, 183:21, 183:22, 196:1, 202:21, 203:6, 203:7, 203:8, 204:9, 206:16, 220:11, 220:19, 220:20, 220:23, 221:11, 221:12, 221:24, 227:21, 230:5, 236:1, 246:5, 260:5	morning 67:6, 67:16, 67:21, 69:20, 231:19, 257:24, 258:6 most 188:2, 209:6, 250:7 mostly 78:10 motivating 84:15 mouth 194:18 move 90:23, 91:5, 95:19, 103:9, 108:19, 109:6, 121:20, 153:2, 182:19, 185:10, 195:17, 250:8 moved 75:15, 75:24, 79:23, 108:22, 137:12, 137:14, 154:5 moving 169:18 much 75:13, 95:4, 119:6, 140:10, 168:13, 262:11 mulbana 68:9 multiple 184:16 multiply 114:14 murder 95:6 murdock 144:1, 144:4, 212:13, 241:19, 243:21 murdock's 211:1, 212:20, 213:3, 216:14, 216:18, 241:24,
---	--	---	---

256:8 must 178:17, 230:19 must've 229:19 mutilated 176:2, 188:12, 188:17, 196:10 mutual 68:24 mutually 224:22, 225:8 myself 150:12	185:3 necessary 84:17, 84:20, 159:5, 205:1, 206:13 need 70:24, 71:6, 71:8, 74:13, 80:1, 81:10, 83:1, 102:24, 119:23, 122:20, 207:3, 256:23, 266:10 needed 82:17, 125:16, 258:7 negates 103:4 negative 259:15 neither 178:8, 246:12, 269:9 never 81:15, 105:5, 111:14, 112:17, 113:21, 115:4, 115:6, 125:17, 125:18, 137:15, 184:6, 246:3, 256:1 new 78:3, 245:22 newly 229:9, 230:5, 230:9 newly-trained 230:4 next 68:4, 103:16, 109:20, 141:6, 156:2, 162:7, 162:17, 168:22, 169:18, 171:17, 176:14, 176:20, 182:4, 182:24, 184:2, 185:10, 187:5, 190:15,	191:23, 197:1, 197:14, 199:19, 202:18, 205:2, 258:6 nobody 164:16 nodding 70:19 none 139:3, 150:10, 192:19 nonreloadable 105:3, 178:23, 179:6, 205:9, 205:10, 205:11 nonunion 153:10 normal 160:19, 160:20, 171:9, 174:16, 188:7 north 64:11 northern 63:2, 145:11 nose 195:23, 256:19 notarial 269:13 notary 63:23, 66:17, 269:1, 269:3, 269:21 notation 175:11 notations 85:15 note 70:13, 168:1, 194:23 noted 70:11 notes 134:7, 134:10, 209:10, 211:1, 212:4, 212:21, 213:19, 214:2, 216:22, 217:1,	218:16, 219:1, 219:10, 244:2, 244:13, 244:14, 247:18, 248:7, 248:10, 248:11, 248:20, 262:24 nothing 69:12, 175:1, 208:3, 214:15 notified 209:4 november 269:14 nr 178:22, 205:9 number 79:8, 96:4, 96:15, 96:16, 98:6, 98:7, 99:2, 99:23, 100:6, 100:15, 106:5, 141:1, 158:10, 167:3, 174:3, 174:6, 176:19, 177:19, 185:12, 189:4, 201:11, 201:17, 201:18, 204:21, 210:3, 216:17, 218:12, 243:4, 244:21, 244:24, 249:5, 249:10, 259:20, 260:1 numbered 162:18 numbers 130:12, 159:21, 169:9, 169:12, 169:15, 172:6, 218:18, 228:23
<hr/>			
N			
<hr/>			
n-o 175:5 name 68:9, 69:21, 77:5, 77:17, 100:16, 118:11, 144:1, 145:22, 160:8, 194:10, 212:17, 233:2, 235:3, 235:12, 260:16, 261:2 named 87:1, 148:19, 162:4, 162:9 names 205:14, 205:15, 261:4 naming 134:20 narrative 221:21, 221:22, 222:19, 224:10, 226:3, 226:5 narratives 226:11 narrow 133:21, 133:22 nation 264:10 nature 153:19, 164:13 necessarily 122:16, 134:22,			
<hr/>			
O			
<hr/>			
o 191:1 oath 68:16, 68:19 object 68:18, 70:20,			

73:3, 188:8, 215:9, 217:6, 217:13, 217:17, 219:2, 230:11 objection 68:15, 68:20, 68:23, 70:21, 71:2, 82:19, 113:10, 128:22, 180:1, 180:4, 184:11, 184:14, 191:10, 219:11, 226:24, 227:9, 229:21, 229:24, 231:6, 237:22, 239:12, 254:16, 264:2, 265:7 objective 114:17, 114:18, 114:19, 115:5 objectives 114:13, 146:15 observed 113:19, 125:8, 175:4, 175:5, 183:12, 186:16, 191:1 obtain 239:23, 240:9 occasion 94:21, 120:17, 141:4, 234:14, 241:4 occasionally 95:3, 95:4 occurred 81:11, 155:8, 245:2, 248:18 occurrence 84:15 occurring 70:14 october 63:16, 168:15, 210:17, 245:2, 245:6 ocular 114:14, 114:15,	114:18, 115:2, 115:4 oculars 114:12 offense 159:21, 167:21, 168:19 office 257:10 officer 262:3, 262:8 officers 261:5 often 78:7, 157:21 oh 74:8, 77:3, 77:10, 114:8, 121:24, 140:21, 157:4, 170:5, 175:5, 182:22, 182:24, 186:14, 199:2, 199:21, 205:20, 205:22, 209:21, 209:23, 209:24, 213:16, 214:23, 233:6, 252:20, 256:15 old 153:18 onboard 81:16, 155:6, 234:18 once 88:16, 89:22, 91:9, 103:8, 136:22, 137:23, 153:17, 212:17 one 68:22, 70:12, 75:2, 76:20, 76:21, 76:23, 77:15, 79:10, 81:1, 83:7, 85:2, 87:13, 87:21, 87:24, 88:2, 88:8, 88:11, 96:5,	102:9, 106:20, 107:11, 108:7, 119:1, 120:17, 131:12, 133:8, 133:9, 135:16, 135:22, 136:8, 137:12, 137:14, 138:13, 140:17, 140:18, 147:19, 149:3, 149:4, 152:7, 152:8, 152:21, 158:7, 163:23, 164:20, 164:24, 165:11, 166:4, 169:2, 169:4, 173:12, 173:19, 189:17, 192:3, 192:12, 192:15, 193:11, 197:1, 202:12, 202:13, 202:15, 203:13, 212:6, 216:4, 216:5, 225:8, 225:10, 225:22, 228:20, 230:4, 233:20, 237:3, 237:5, 237:12, 237:21, 243:9, 243:12, 247:14, 247:16, 247:21, 248:14, 249:18, 249:23, 250:19, 251:10, 252:6, 252:14, 252:19, 252:24, 253:11, 253:23, 255:18, 256:5, 257:1, 265:12, 265:13, 266:3 ones 107:10, 117:13, 225:14 ongoing 75:12 only 70:8, 83:24, 84:22, 85:2, 87:21, 87:24,	88:2, 111:20, 125:6, 139:19, 140:10, 140:15, 141:23, 142:2, 176:11, 256:9, 259:7 open 72:13, 98:13, 98:19, 195:22, 195:23, 195:24 opened 82:12, 82:15, 164:16, 171:3, 194:18 opening 77:15, 98:18, 164:17 operating 203:18, 243:2 opinion 66:8, 74:16, 133:16, 222:5, 230:6, 230:8, 231:3, 239:21, 239:22, 240:8, 241:21, 243:17, 245:15 opinions 239:10, 242:1 opportunity 245:6 opposed 85:10, 85:12, 85:14, 115:3, 193:4, 193:9, 204:10, 206:24 opposing 257:16, 257:17 opted 226:6 option 73:2 options 112:23 order 70:14, 129:12, 160:23, 244:7, 266:10, 266:17
--	--	---	--

ordered 244:14 ordering 266:12, 266:19 orders 80:8 organization 153:12, 232:11, 232:14 orientation 106:7, 123:14 original 91:10, 97:4, 128:8, 179:23, 247:11 other 70:11, 70:16, 78:15, 78:20, 84:18, 86:4, 88:4, 91:4, 91:15, 100:11, 109:20, 121:23, 128:9, 129:7, 131:19, 131:24, 134:23, 136:14, 139:14, 144:23, 146:6, 146:15, 147:10, 147:17, 147:19, 148:9, 148:12, 148:13, 148:15, 150:7, 150:23, 151:6, 152:9, 152:21, 154:13, 156:6, 156:17, 182:23, 183:8, 184:3, 190:23, 194:24, 196:14, 197:24, 199:20, 216:21, 218:17, 223:8, 225:9, 225:10, 232:10, 237:20, 241:14, 248:14, 253:2, 255:23, 257:1, 260:8, 266:7 other's 156:20, 156:22	others 76:23, 88:1, 131:23, 145:13, 148:19, 156:14, 227:21, 247:1, 257:18, 264:16, 265:3 otherwise 69:1, 75:13, 181:1, 232:8, 261:15, 269:11 out 83:10, 83:19, 84:22, 86:5, 96:19, 99:13, 105:23, 108:8, 117:22, 117:23, 118:24, 119:18, 120:10, 125:7, 125:10, 130:13, 135:2, 138:14, 144:7, 164:6, 169:11, 172:24, 174:1, 178:16, 180:9, 187:7, 192:7, 192:12, 192:15, 192:20, 193:2, 193:3, 193:14, 204:7, 207:2, 207:6, 207:7, 214:24, 223:9, 232:7, 232:18, 248:21, 252:24 outcome 269:11 outside 151:5, 175:23, 226:22, 228:24, 232:2 over 70:3, 70:16, 73:6, 89:24, 90:5, 94:9, 95:21, 95:23, 124:12, 127:14, 182:7, 184:7, 184:21, 184:22,	189:22, 194:15, 207:20, 207:23, 245:16, 259:13, 260:22, 262:24 overall 100:10 own 73:24, 81:19, 81:24, 83:2, 153:22, 257:21 <hr/> P <hr/> p-l-a-u-t-z 80:17 package 98:18, 177:11, 177:12, 186:9, 186:15, 191:1, 198:13, 198:17, 212:16 packaged 160:17, 212:18 packages 89:9 packaging 91:16, 95:18, 98:5, 126:19, 126:20, 128:8, 128:10, 174:24, 177:18, 177:23, 179:22, 190:23 packet 94:15 page 66:2, 160:3, 160:5, 160:10, 162:17, 162:18, 162:19, 163:3, 167:13, 167:15, 168:14, 169:8, 170:12, 170:16, 172:7, 172:8, 173:10, 174:12, 174:14, 176:14, 176:15, 180:20, 181:12, 185:10, 190:16, 197:3, 210:18, 210:20,	211:5, 250:3, 250:4, 250:9, 255:4 pages 146:16, 168:8, 224:2, 256:9 paper 128:7, 164:21, 164:22, 164:24, 186:9, 190:24 paperwork 250:22, 251:4, 251:11, 252:6, 252:7 paragraph 247:3, 247:4 parallel 121:2, 183:18, 183:19 park 64:20 part 99:12, 100:22, 110:3, 112:22, 122:10, 137:2, 143:12, 172:14, 188:2, 202:2, 202:3, 202:7, 202:8, 212:1, 214:1, 224:14, 244:19, 249:13 particular 79:1, 81:1, 101:10, 102:20, 104:8, 106:8, 111:15, 181:24, 226:15, 230:19, 255:12 particulars 91:15, 147:20 parties 65:22, 70:7, 269:10 partner 194:18 passed 235:1, 253:18 past 143:13, 147:2,
---	---	--	--

<p>147:5, 149:15, 149:16, 232:6 patrick 63:3, 67:8, 151:18, 168:19, 261:18, 261:22, 262:4, 262:9 patrick's 151:17 patty 149:2, 149:3, 149:9, 149:22, 242:5, 242:11, 244:3, 244:10, 244:12, 245:8, 247:6 pause 94:3 pd 81:16, 81:19, 82:15, 82:16, 84:16, 84:18, 257:12 pdf 267:2 people 81:12, 84:12, 88:6, 119:7, 119:15, 120:9, 152:4, 153:13, 164:6, 172:21, 208:9, 209:16, 232:13, 237:10 percent 128:20 perfectly 128:20 perform 80:6, 86:23 performance 80:6, 146:22 perhaps 112:14 period 78:4, 95:22, 96:5, 252:17 periphery 88:21, 190:2</p>	<p>person 70:12, 84:22, 92:22, 157:4, 164:2, 197:24, 198:10, 240:24 personally 91:7, 125:1, 136:12, 137:7, 137:9, 144:10, 144:14 personnel 83:17, 261:15 pertinent 100:5 pete 162:13, 162:24, 177:1, 185:23, 190:19, 211:7 peter 63:14, 65:9, 66:2, 66:10, 68:2, 68:3, 69:15, 245:2, 268:3 phase 190:4, 190:5, 190:11 phone 94:24, 262:15, 263:17 photo 221:14, 222:19 photograph 226:3, 244:19 photograph-to-ph- otograph 111:17 photographs 78:24, 111:13, 112:1, 112:3, 210:22, 212:24 photomicrograph 113:16, 221:1, 221:20, 226:6 photomicrographs 111:14, 112:18, 112:24, 226:6 photos 224:9</p>	<p>phrase 83:8, 105:9, 264:16, 264:18, 264:22, 265:2 physical 91:14, 91:16, 100:11, 104:11, 177:22, 244:20, 245:15 picked 132:17, 165:7 piece 117:19, 117:20 pieces 126:22, 163:4, 163:10, 163:15 pin 116:23, 117:3, 117:5, 117:18, 118:6, 121:22, 203:20 pink 97:19, 159:19, 160:22 pins 117:17 pirages 64:34, 67:20, 261:3 pistol 117:1, 200:4, 200:7, 200:8, 216:22, 244:24 pistols 133:6 place 63:18, 79:12, 80:7, 92:3, 92:7, 98:4, 102:10, 106:7, 106:13, 106:21, 127:21, 135:9, 140:13, 245:5 placed 97:23, 108:22, 126:10, 128:6 placing 120:19</p>	<p>plaintiff 63:5, 63:15, 64:16, 67:7, 69:22, 146:14 plaintiff's 249:10 plastic 177:11, 186:9 plated 100:9, 199:20, 199:21, 199:22 plautz 80:17 play 83:14 please 67:4, 69:7, 119:2 pleased 258:3 plenty 156:1 plus 202:11, 202:17 pobjecky 64:25, 67:15 point 79:1, 81:2, 89:23, 111:16, 113:5, 113:14, 113:17, 120:18, 138:2, 155:24, 164:15, 164:16, 166:15, 181:8, 182:15 pointed 169:11 police 66:6, 68:1, 72:16, 81:9, 81:13, 83:1, 84:20, 87:4, 136:14, 136:24, 140:22, 146:23, 147:20, 153:11, 155:5, 155:6, 161:14, 168:8, 209:4, 225:2,</p>
---	--	---	---

225:12, 232:24, 233:8, 233:14, 234:18, 234:19, 235:19, 236:16, 238:13, 238:14, 238:15, 238:18, 239:9, 239:10, 250:10, 255:9, 262:3, 262:8, 263:15, 263:22, 264:5, 265:17, 265:23, 266:1 policies 126:7, 126:12, 220:14 policy 79:2, 112:22, 193:8, 193:10, 193:15 polish 117:24 polishing 101:7, 118:1 portion 201:20, 201:23 position 109:12, 153:10, 204:2 positioning 109:13 positive 129:12, 188:24, 196:15, 259:7, 259:15, 264:20, 264:23 possession 97:22, 138:22, 161:23 possibility 86:9, 91:5, 120:15, 124:6, 135:19, 156:23, 198:3 possible 107:9, 129:19, 130:8, 134:15, 134:17, 142:13 possibles 140:15	possibly 112:16, 124:24, 127:1, 171:2, 175:8, 232:9 potential 94:12, 96:19, 141:2, 141:16, 216:11, 216:12, 217:3, 217:24 potentially 123:19 pottinger 65:12, 67:9, 68:21, 260:10, 267:5, 267:8, 267:9 pounds 204:21, 205:1 power 114:10, 114:14, 206:8, 206:11 pr 80:12 practice 124:10, 184:1, 193:21, 193:23, 206:19, 221:15, 222:4 practices 222:1, 222:2, 222:3 precursor 152:3, 152:6, 152:22 preliminaries 218:1 preliminarily 137:4, 137:12, 138:7, 138:8, 218:1 preliminary 136:2, 136:4, 136:6, 136:19, 136:23, 137:20, 138:3, 165:20, 166:2, 166:5, 192:12, 193:9, 193:12, 208:24,	209:15, 236:22, 237:1, 237:9, 239:10, 239:16, 240:8 premise 73:5 prepare 146:1, 146:3 presence 68:17, 245:7 present 72:17, 129:8, 150:20, 150:24, 171:13, 213:6, 245:12 president 143:13, 149:16, 232:12 presidents 232:6 pressed 207:8 presume 175:3 presumption 131:24, 261:13 pretty 75:13, 77:19, 86:7, 119:6, 140:9, 149:13, 256:3 prevented 259:14 previous 247:15 primary 84:3, 88:15, 93:2, 93:5, 97:10, 97:14, 110:9, 125:16, 183:19 primer 178:19 principal 124:10, 124:15 print 218:14 printed 257:20	printer 257:21 prints 170:6, 171:1, 171:10, 171:13, 172:15, 172:16, 198:3, 198:4, 198:6, 218:22, 219:1 prior 68:21, 225:18 priority 142:10, 142:11 pristine 105:15, 105:16, 105:22, 121:11 private 147:16 privilege 150:17 probably 120:9, 120:12, 164:1, 164:6, 172:18, 175:3, 183:15, 199:10, 199:13, 201:6, 211:16, 216:1, 252:23, 252:24 problem 71:3, 138:8, 193:24, 217:3, 217:11, 217:24, 218:24 problems 216:11, 216:12 procedure 70:6, 165:5, 171:9, 172:23, 243:2 procedures 85:23, 86:4, 245:4 proceed 136:10 proceedings 66:1, 67:1, 116:3, 158:8, 210:9, 219:22,
---	--	---	--

<p>263:5, 263:19 process 72:9, 79:11, 81:2, 82:18, 83:3, 83:10, 84:5, 85:6, 89:5, 97:13, 102:2, 103:5, 103:16, 113:3, 117:16, 118:7, 118:19, 123:24, 124:9, 127:11, 131:5, 132:6, 132:22, 155:4, 181:8, 182:3, 189:15, 199:23, 200:19, 213:18 processing 170:6 produced 119:5, 249:19 professional 143:23, 240:16, 250:2 program 152:2, 152:20, 152:24, 214:24 pronounced 107:12, 107:13, 121:14, 121:22, 122:23, 123:11 pronouncing 260:16 proper 203:19 properly 207:12, 207:14, 207:15, 245:24, 246:1 property 168:7 prosecution 258:2 protocol 111:12, 122:10, 135:5 protocols 126:7, 126:9,</p>	<p>184:4, 245:4 proud 256:6 prove 123:2 provide 111:21, 136:16, 138:12, 192:18, 226:13, 226:14, 249:18 provided 240:15, 249:17, 255:8 proximity 164:2 pry 72:13 ps 176:23, 177:1, 185:15 ptaf 199:16, 244:24 public 63:23, 66:17, 194:16, 194:20, 269:1, 269:3, 269:21 pull 203:4, 203:9, 203:11, 203:12, 204:14, 204:19, 215:13 punched 117:22, 117:23 purpose 98:9, 226:12, 226:16, 251:16, 251:18, 258:21 purposefully 118:4, 119:11, 119:13 purposes 188:19 pursley 63:3, 67:8, 167:7, 168:19, 176:16, 185:11, 197:4, 207:20,</p>	<p>209:13, 210:23, 210:24, 216:19, 227:4, 243:18, 261:18, 261:23, 262:4, 262:9 pursley's 151:17, 151:18, 208:1 pursuant 70:5 push 84:17 put 111:13, 118:1, 118:4, 119:8, 126:20, 128:8, 130:9, 134:13, 140:7, 156:13, 158:21, 159:5, 159:22, 172:18, 177:19, 180:11, 181:17, 183:3, 183:15, 183:20, 186:6, 202:6, 202:14, 202:15, 202:16, 227:23, 228:3, 266:3 puts 159:22 putting 156:13, 156:15, 227:22</p> <hr/> <p style="text-align: center;">Q</p> <hr/> <p>qualifications 85:4 qualified 135:19 qualify 135:1 quality 79:6, 79:7, 129:6, 158:1, 158:3, 194:24, 250:10, 250:15, 250:18, 251:9, 251:16, 251:19, 253:9, 253:18,</p>	<p>254:3, 254:10, 254:14, 254:24 quantitative 129:5 quantity 130:20 question 70:21, 70:22, 70:24, 71:4, 73:7, 98:24, 110:14, 123:1, 132:24, 138:16, 140:18, 152:17, 192:9, 227:6, 265:13 questioned 122:6, 122:7, 122:8, 123:9, 138:1, 178:4, 181:13, 189:16, 208:23, 214:5 questioned-to-qu- estioned 123:5, 124:1 questions 80:9, 125:24, 220:6, 220:9, 256:22, 260:5, 260:7, 260:9, 260:11, 260:13, 262:14, 262:24, 263:10, 265:8, 266:6, 266:8 quick 115:15, 192:17, 249:8, 260:12 quickly 260:22, 261:16 quit 194:6, 195:9 quite 140:24, 141:1</p> <hr/> <p style="text-align: center;">R</p> <hr/> <p>r 191:19, 244:21 raise 69:7</p>
--	---	--	---

ran 84:11, 214:6 randolph 65:5 random 79:4, 251:13 range 114:24 rapport 238:15 rare 256:3 rather 109:9, 118:6, 258:8 re-exam 253:23 re-examination 242:6, 244:3, 252:15 re-examine 245:7 re-examined 242:10 read 212:20, 244:16, 244:17, 268:3 reading 154:14, 162:5 real 260:22, 261:16 realize 119:14, 120:9, 233:17 really 78:9, 81:15, 85:18, 96:13, 135:14, 154:21, 155:11, 194:8, 194:17, 200:14, 206:8, 215:17, 218:3, 221:8, 226:16 reanalysis 79:4, 251:13, 254:8 reason 99:12, 107:20,	114:5, 138:4, 139:14, 170:24, 176:9, 207:9, 207:12, 207:13, 207:16, 261:17, 261:21, 261:24, 262:2, 262:7 reasons 139:19 rec 201:14 recall 77:4, 78:8, 78:9, 84:24, 86:2, 86:4, 86:24, 96:22, 97:1, 111:9, 112:12, 113:4, 124:24, 131:18, 131:20, 135:8, 136:13, 139:3, 139:5, 139:8, 142:7, 147:20, 155:7, 155:9, 155:12, 164:12, 164:14, 206:13, 207:20, 208:12, 218:10, 221:3, 229:7, 229:11, 231:13, 231:14, 231:16, 237:3, 237:4, 237:5, 238:6, 240:17, 240:20, 240:23, 241:2, 241:8, 241:9, 241:10, 241:13, 241:17, 243:12, 252:10, 255:24, 257:4, 258:15, 258:19, 263:10 receipt 66:5, 95:14, 97:21, 159:1, 159:18, 169:8, 170:12, 170:22, 171:23, 172:24, 177:8, 186:5,	198:11 receipts 251:1 receive 78:14, 94:15, 140:13, 163:22, 250:18 received 98:15, 125:22, 160:3, 161:1, 161:2, 161:4, 161:10, 164:9, 164:20, 164:24, 166:22, 168:23, 169:21, 170:21, 170:23, 171:2, 171:18, 174:6, 174:7, 174:8, 174:23, 176:20, 177:1, 177:4, 177:12, 185:14, 185:23, 186:2, 186:6, 190:18, 190:21, 197:21, 198:9, 198:10, 228:5 receiver 201:10, 201:16, 201:17, 201:18, 201:19, 201:23, 202:3, 202:6, 202:8 receives 201:24 receiving 139:5, 160:7, 257:13 recognize 261:4, 261:6 recollection 75:1, 84:6, 126:18, 160:7, 165:14, 166:24, 181:23, 221:7, 226:14, 232:10, 246:2, 255:19 record 68:9, 68:14,	115:9, 116:4, 140:2, 152:12, 158:6, 158:9, 194:20, 194:23, 195:1, 207:5, 210:10, 219:23, 237:15, 263:6, 263:17, 263:20, 269:5 recorded 70:8 recording 113:7 recoup 153:8, 153:16 recover 136:24, 141:8 recovered 209:20 recovers 137:24 red 86:6, 180:19 redirect 66:15, 265:13, 265:14 redo 253:13 reduced 269:7 refer 171:22, 171:23, 179:23, 180:3, 185:17, 186:16, 198:6, 198:18, 204:14, 240:12 reference 179:14, 216:19, 255:14 referred 170:17, 201:21 referring 77:2, 77:6, 77:10, 134:2, 178:19, 178:20, 194:11, 223:24, 224:2, 224:5, 238:13, 238:14,
---	---	--	--

238:15 refers 174:3, 185:18, 200:7 reffett 65:20, 67:11 reflect 142:20, 165:13 reflected 177:7, 186:4, 225:24 reflecting 181:21 reflection 228:4, 228:6, 228:10 refresh 165:13 refresher 154:11, 154:16 regan 63:21, 269:3, 269:20 regard 80:9, 167:19, 209:17, 221:9, 228:7, 229:3, 239:5, 239:20, 265:21 regarding 263:11 reiterate 143:8 related 209:10, 269:9 relationship 234:5 relationships 88:14 relatively 258:3 release 204:21 reliable 105:10 reload 105:11, 105:12, 105:13, 105:14,	178:24 reloadable 105:3, 105:5, 105:7, 105:9 rely 120:5 remember 77:17, 151:17, 154:18, 154:20, 166:18, 166:23, 198:2, 220:12, 264:15 remind 70:4, 226:17, 226:21 remove 102:9, 106:20, 123:16, 127:9 removed 162:3 render 119:8 rendered 241:21 repeat 70:24, 113:11, 157:10, 158:19, 235:8 repeating 141:17 repeats 255:16 repetition 71:3 rephrase 113:12 replica 128:21 report 66:6, 77:16, 91:18, 91:20, 134:16, 135:5, 135:6, 136:18, 136:20, 137:20, 162:6, 167:8, 167:16, 167:18, 168:15, 169:16, 169:19, 170:17,	171:7, 172:8, 173:9, 174:12, 174:14, 186:5, 192:20, 193:4, 209:10, 210:24, 211:1, 212:20, 212:24, 216:18, 216:22, 217:10, 218:14, 218:15, 219:10, 220:3, 220:9, 222:9, 222:11, 222:14, 222:18, 222:23, 223:21, 223:24, 224:9, 224:15, 231:4, 231:11, 242:1, 243:22, 243:24, 244:1, 248:17, 250:23, 253:17, 256:8 reported 63:20 reporter 63:22, 66:17, 67:3, 68:5, 68:13, 69:2, 69:6, 69:10, 69:14, 70:9, 70:13, 235:7, 235:11, 235:14, 266:9, 266:14, 266:18, 266:22, 267:3, 267:7, 267:10, 267:13, 269:1, 269:3 reports 210:22, 217:1, 224:11 represent 67:5, 67:7, 67:10, 67:13, 67:17, 67:24, 69:22, 210:15, 243:20, 247:17, 247:23 represented 147:7 represents 68:10	reprimanded 194:6 reproduce 107:17, 107:19, 107:21, 108:23, 121:12, 123:4 reproduced 108:10, 116:16, 123:6 reproduces 110:11, 122:4, 122:8 reproducibility 108:19, 109:6, 109:13, 114:2, 125:8, 128:18, 132:6, 242:24, 258:23 reproducible 108:4 reproducing 109:22, 110:23 reputation 144:21, 145:1, 233:24 requested 269:8 require 226:2, 228:2 required 75:10, 113:6, 122:11, 183:22 requirement 176:11, 222:19, 222:20, 222:22, 263:23, 264:5, 264:7 requirements 223:17, 230:10 requires 264:11 reserve 265:10, 266:8 response 244:7 responses 70:18 responsibilities 80:4
---	---	--	---

responsibility 83:11	254:24, 255:1, 269:8	139:11, 139:12, 139:15, 148:24, 159:22, 163:5, 163:11, 163:16, 165:16, 168:8, 209:4, 211:14, 261:5, 261:10, 261:14, 262:3, 262:8, 265:17, 265:23, 266:1	sabi 205:20
rest 198:24	reviewed 79:8, 79:10, 138:5, 142:3, 146:12, 167:11, 250:20, 253:9	role 83:14, 212:1	safely 126:8, 126:9
result 142:21, 142:23, 245:9, 259:4, 259:15	reviews 254:5	rolled 83:10, 83:19, 84:22	safety 194:16
resulted 264:19, 264:23	revolver 200:5	rollover 84:7, 84:8	said 75:15, 83:17, 84:11, 93:5, 94:10, 98:2, 109:2, 109:5, 119:7, 119:23, 120:12, 141:23, 146:12, 152:6, 153:15, 154:23, 156:9, 157:10, 164:7, 165:10, 168:15, 170:24, 171:3, 182:16, 185:5, 186:6, 186:18, 194:21, 198:1, 209:23, 213:5, 215:22, 216:2, 223:20, 225:21, 238:8, 240:10, 252:4, 252:13, 265:21, 269:6
results 136:20, 210:21, 213:3	rewarding 258:8	ron 64:23	sake 132:4
retain 230:5	rf 158:20, 200:5	rossi 134:19	salary 74:24, 75:5
retired 76:20, 76:24, 81:13, 81:15, 155:5, 206:20, 211:17, 234:17	rfd 158:14, 158:20, 159:6	round 117:9, 195:23, 203:4	sam 64:24
retrace 116:24	rifling 99:4, 99:8, 134:12, 134:23, 138:10, 186:22, 191:18	rounded 117:11	same 75:13, 97:10, 104:7, 104:13, 105:1, 107:1, 107:8, 108:23, 119:6, 119:18, 122:24, 126:19, 126:20, 126:23, 128:9, 130:10, 130:11, 130:14, 133:2, 133:4, 133:13, 133:14, 142:17, 142:24, 143:3, 143:5,
retract 82:7	right-hand 134:18, 159:23, 191:21	rounds 171:24, 172:2	
retrial 208:5	rimfire 200:5	rule 76:19	
retrieve 98:1, 98:4	ringing 263:18	rules 70:4, 70:6	
returned 126:19, 126:21, 127:3, 128:1, 128:9, 161:9, 214:12	risks 86:6	run 118:19, 152:21	
rev 200:4	rn 195:22	runs 210:20	
revert 247:3	road 260:23	rusty 211:1, 211:10, 243:24	
review 90:14, 139:6, 146:5, 146:8, 209:5, 216:23, 250:10, 250:16, 250:18, 250:19, 251:6, 251:12, 251:16, 253:9, 253:11, 253:12, 253:22, 254:4, 254:11, 254:14,	robert 65:12, 67:9, 77:18, 77:20, 77:21, 194:15, 237:15, 237:18, 237:21, 238:2, 267:5, 267:8	S	
	rockford 63:9, 64:21, 64:31, 65:16, 68:10, 139:5, 139:6, 139:10,	s 89:5, 94:14, 95:22, 112:18, 131:18, 225:20	
		s-h-e-m 237:17	
		sa 204:14	

143:6, 143:7, 143:9, 145:19, 145:20, 149:18, 149:21, 150:2, 153:18, 162:8, 162:12, 189:15, 192:11, 196:21, 215:23, 215:24, 225:22, 232:11, 232:15, 232:17, 234:20, 235:23, 268:4 sander 119:9, 120:19 sanding 101:8 satisfy 222:18 save 106:10 saw 86:8, 91:3, 221:22, 228:5, 228:6, 228:8, 228:13, 242:20, 242:21, 243:22 say 72:12, 72:20, 76:3, 76:6, 86:22, 89:23, 90:2, 90:5, 90:8, 91:16, 91:21, 92:9, 92:14, 93:4, 95:24, 96:11, 96:20, 97:2, 97:8, 102:12, 106:10, 109:9, 114:17, 118:3, 122:23, 122:24, 124:11, 125:5, 130:10, 133:7, 133:12, 134:16, 134:17, 135:6, 137:19, 137:24, 138:9, 141:1, 145:18, 149:8, 149:13, 149:15,	153:10, 156:4, 175:12, 179:2, 182:4, 182:6, 182:13, 182:23, 183:1, 183:4, 189:20, 192:3, 192:24, 202:18, 206:2, 213:10, 213:12, 213:20, 218:3, 221:10, 222:6, 222:9, 222:11, 222:14, 223:22, 224:6, 229:10, 235:16, 236:13, 253:17, 256:3, 256:5, 257:21, 258:3 saying 89:6, 94:9, 112:17, 131:23, 136:20, 148:13, 184:18, 185:4, 207:1, 216:15, 238:6, 240:23, 242:17, 242:19, 246:16, 247:9, 254:24, 265:17, 265:23, 266:2 says 111:22, 160:24, 163:3, 164:20, 168:18, 168:22, 169:1, 169:20, 174:14, 174:22, 174:24, 175:11, 175:24, 176:2, 176:15, 176:17, 176:20, 178:18, 178:21, 179:6, 179:9, 179:22, 181:4, 188:2, 188:23, 190:18, 191:16, 191:17, 191:18, 196:3, 196:10, 198:23, 202:24, 203:16, 203:18, 204:13, 205:2, 205:9,	212:4, 212:8, 212:9, 214:17, 216:12, 216:14, 216:17, 218:14, 246:12, 250:10 sc 202:21 scene 216:20 schedule 252:11 schmidt 64:25, 67:15 schwartz 257:17 science 82:12, 83:3, 233:16, 245:8, 258:12 sciences 143:16, 225:3, 225:13 scientist 73:18, 73:19, 74:2, 74:17, 76:1, 76:4, 80:21, 86:16, 185:19, 185:23, 190:19, 197:24, 238:18, 245:2 scientists 82:17, 84:16 scope 76:15, 84:1, 85:8, 85:19, 88:13, 88:16, 90:9, 90:12, 90:15, 90:19, 91:21, 92:3, 92:8, 92:22, 94:10, 96:20, 97:5, 106:22, 112:2, 114:21, 185:2, 185:8, 215:2 score 143:1 scott 64:34, 67:19,	261:3 screen 158:16, 158:21, 159:5 screening 124:22 screwdriver 72:13 scuttlebutt 208:6, 208:8 seal 269:13 sealed 98:15, 126:21, 160:12, 160:13, 160:14, 160:15, 164:20, 164:22, 164:24, 172:1, 172:2, 172:3, 172:5, 186:13, 186:14, 190:24, 198:14 search 141:12, 141:13 searched 218:16, 218:17 season 154:19 second 102:13, 137:2, 158:7, 160:3, 170:12, 170:16, 172:7, 190:18, 197:3, 197:5, 197:6, 204:21, 210:18, 210:19, 210:20, 211:5, 211:9, 212:3, 244:19, 247:4, 255:4, 258:1 section 82:15, 98:2, 161:9, 162:22, 169:21, 170:1, 170:7, 171:7, 171:19, 172:15, 172:16, 233:9 secured 97:23, 126:11,
---	--	--	--

127:20 seeing 110:23, 181:12, 181:13 seem 180:7 seems 144:11, 160:20, 160:23 seen 111:9, 112:12, 113:16, 118:9, 137:10, 137:11, 137:13, 137:16, 200:16 sees 245:21 semi-automatic 117:1, 133:6, 259:1 seminar 232:4, 232:6, 232:9 seminars 120:6, 120:10, 137:19, 144:19, 154:15 send 165:11 sending 138:4 senior 157:4, 236:1 sense 69:4, 163:21, 172:9, 207:4 sent 138:19, 138:20, 138:23, 146:6, 172:14, 192:20, 212:19 separate 130:10, 130:13, 130:18 serial 100:6, 130:11, 201:11, 201:17, 201:18, 244:24	set 77:20, 88:16, 90:20, 97:4, 269:12 seven 79:22, 80:19, 153:23 several 118:8, 118:9, 119:18, 265:8 shade 160:22 shared 68:23 sheet 95:9, 199:11, 268:7 shelf 172:18 shell 241:22 shem 194:15, 195:1, 237:15, 237:18, 237:21, 238:2, 238:3, 239:5, 239:15 sheriff's 75:20 shoot 105:7, 105:17 shooting 95:11, 113:24, 259:14 shotguns 200:7 shots 103:18, 103:21, 109:16 should 83:17, 171:3, 174:18, 186:7, 192:15, 193:14, 219:6, 219:10, 219:15, 220:15, 257:21 should've 248:16	shouldn't 77:4, 106:13, 170:9, 171:1, 194:2, 194:8, 194:18, 261:14 show 92:4, 158:4, 158:13, 207:2 showed 87:14, 87:15, 140:23, 155:5, 157:9, 157:24, 262:5 showing 113:19, 227:5 sic 159:6 side 95:6, 106:4, 147:10, 255:23 side-by-side 181:14, 181:16 sign 95:15, 95:16, 95:17, 164:7, 172:15 signature 159:15, 160:2, 173:5, 265:11, 266:8, 268:13 signature-5tmlq 269:18 signed 74:9, 163:23, 164:15, 167:20, 168:2, 172:13, 172:18, 268:7 signing 85:14, 89:9, 89:10, 160:7, 164:17 silver 106:3 similar 110:7, 128:21, 129:10, 134:23, 138:10, 205:10 similarity 128:19	since 132:24, 133:5, 155:19, 224:19, 249:19, 261:1 single 203:2, 203:13, 254:14 single-action 203:1, 203:3, 204:15, 204:20 sir 249:9, 260:18, 261:6, 261:19, 262:11, 263:13, 264:1, 264:7, 264:17, 264:21, 265:1, 265:6, 267:9 sit 231:2, 231:5, 242:2 sitting 68:4 situation 195:13 six 72:3, 72:5, 93:24, 94:1, 99:24, 101:16, 101:17, 101:21, 101:22, 102:3, 102:17, 102:18, 103:6, 114:1, 129:16, 186:24, 187:1, 187:2, 191:19, 191:20, 191:21, 256:9 size 114:22 sketch 112:24, 113:15, 113:18, 221:2, 221:14, 221:16, 221:19, 221:20, 222:19, 226:3, 226:5, 226:11, 226:12, 226:16, 226:20, 227:23,
---	---	---	--

228:10, 228:15, 229:15 sketches 222:10, 224:10, 227:5, 227:7, 227:16 skip 197:2, 203:15 sky 200:21 sl 205:19 slide 201:10, 201:22, 203:4, 205:21 slightly 106:16, 107:4, 107:7, 187:6, 187:8 small 145:10 smith 87:3, 87:15, 87:18, 134:19, 155:5, 155:24, 156:23, 157:9, 157:24, 198:1 smooth 121:3, 200:7 socialize 232:8, 234:3 socialized 232:2 softer 73:3 solemnly 69:11 solid 187:6, 187:8 some 70:3, 70:20, 78:14, 78:19, 81:12, 88:6, 93:1, 104:9, 113:3, 113:5, 113:6, 113:14, 113:17, 124:13, 139:23, 144:9,	148:15, 148:19, 154:2, 154:3, 168:7, 175:18, 175:19, 179:16, 188:9, 192:16, 204:13, 208:6, 213:19, 223:7, 226:13, 226:14, 227:21, 234:8, 235:1, 244:2, 244:14, 245:10, 248:7, 248:10, 248:20, 255:15, 257:16, 259:13, 262:14, 262:23 somebody 69:1, 241:6 somehow 245:16 someone 77:6, 77:10, 85:3, 156:20, 161:10, 162:4, 162:9, 166:9, 166:20, 172:15 something 74:5, 82:23, 90:9, 92:15, 92:17, 92:18, 92:23, 94:10, 94:11, 95:7, 100:7, 102:1, 118:6, 118:18, 120:2, 124:12, 127:19, 128:7, 130:2, 130:4, 136:3, 136:15, 138:9, 141:3, 141:22, 141:23, 160:22, 172:22, 182:6, 184:18, 184:22, 187:9, 195:24, 202:20, 202:23, 203:2, 211:19, 222:7, 223:8, 227:24, 228:3, 239:1, 251:8, 251:20,	258:6 sometime 142:7 sometimes 76:15, 88:22, 107:10, 117:22, 121:13, 124:1, 201:21, 206:14, 246:5 somewhere 111:11, 155:4, 158:16, 165:7, 165:8 son 234:22, 236:5 soon 182:15, 260:23 sorry 87:8, 109:1, 144:11, 145:4, 156:8, 157:11, 161:3, 191:17, 208:15, 209:24, 224:1, 233:11, 235:5, 240:18, 247:13, 247:20 sort 86:11, 89:4, 89:23, 90:7, 90:21, 133:21, 137:1, 169:13, 189:23, 211:2, 258:10 sound 114:4, 128:2, 157:6, 191:2 sounds 116:2, 141:17, 157:12, 157:14 source 176:20, 176:23 south 64:5, 80:11 spaces 191:24 spacial 88:13 speak 223:9, 262:15,	262:20, 262:23 speaking 67:17, 88:5, 164:12, 260:13 specialized 255:5 specific 84:4, 106:7, 119:16 specifically 70:23, 77:13, 81:7, 86:6, 95:22, 96:23, 122:13, 135:13, 139:8, 155:7, 155:13, 206:14 speculate 96:3, 96:13, 171:1 speculated 218:20 speculating 170:8 speculation 82:20, 180:1, 180:4, 184:11, 184:14, 191:10, 227:1, 227:9 spell 235:12 spent 79:18, 160:14, 160:16 spherical 117:11 spiral 99:9 spoken 151:6, 211:21 spot 180:11 springfield 149:7, 245:8 squeeze 203:5, 203:7, 203:10 st 78:17, 78:18
---	---	--	--

stability 99:13 stainless 199:23 stalter 65:15 stamp 180:24, 181:2, 181:4, 181:8, 181:17, 182:17, 182:20, 183:5, 189:7, 189:8, 196:18, 201:7, 201:8 stamped 201:9, 228:24 stamps 180:19, 180:20, 180:23, 182:18 stand 247:5, 247:8, 247:10, 247:11 standard 77:20, 77:21, 128:15, 128:24, 131:10, 131:11, 131:12, 165:5, 165:6, 172:23, 221:14, 222:5, 222:12, 222:15, 223:21, 224:12, 225:9, 243:2, 254:5, 255:2 standards 220:18, 221:10, 223:17, 224:13, 224:15, 224:17, 225:7, 225:23, 225:24, 226:2, 227:19, 228:1, 228:2, 229:8, 229:10, 229:12, 229:15, 229:20, 230:10, 230:18, 230:19, 231:4, 231:11, 231:12, 231:17 standing 242:1, 242:15	start 76:21, 89:4, 97:16, 102:12, 168:12, 238:12 started 69:20, 70:2, 71:11, 71:14, 72:3, 72:7, 73:24, 86:12, 95:17, 113:3, 153:9, 157:7, 157:13, 157:16, 236:2, 241:5 starting 117:3, 173:9, 241:11, 250:3, 256:9 state 63:24, 64:5, 64:29, 68:1, 71:14, 81:16, 82:11, 83:1, 84:12, 84:20, 136:14, 140:22, 146:23, 147:19, 153:11, 155:6, 225:2, 225:12, 234:18, 234:19, 236:16, 250:10, 251:24, 252:2, 263:14, 263:22, 264:5, 269:4, 269:21 state's 80:9, 257:9 stated 247:17 statement 84:10 states 63:1, 69:1, 245:20 statewide 250:10, 254:3, 254:10 stay 107:8 steel 199:23	stenographic 67:3, 68:5, 68:13, 69:6, 69:10, 69:14, 235:11, 235:14, 266:9, 266:14, 266:18, 266:22, 267:3, 267:7, 267:10, 267:13 stenographically 63:19, 269:7 step 116:9, 153:1 stephen 64:33 steps 75:5 steve 260:10 steven 67:20, 261:3 still 75:22, 81:24, 86:20, 119:24, 155:21, 175:15, 188:14, 188:17, 188:18, 188:20, 225:16, 225:17, 227:3, 240:1, 242:1, 242:14, 242:19, 247:8, 247:10, 259:20, 259:24 stippled 229:4 stop 256:20 stopped 212:18 storage 126:1, 127:11, 172:19 store 126:4, 126:10, 128:3 stored 126:16, 126:23, 127:13, 127:18, 127:22, 207:12, 207:14, 207:15, 245:24 story 153:18 straight 204:5 strange 160:18 street 64:5, 64:11, 64:29, 65:5 stressful 258:4 stria 89:18, 145:9, 145:14, 245:20, 245:24 striations 189:24 strict 72:10, 72:20, 77:24 strictly 112:6 strike 92:1, 95:20, 120:21, 131:9, 149:4, 240:18, 259:18 strikes 188:8 striupaitis 63:14, 65:10, 66:2, 66:10, 68:2, 68:3, 69:15, 69:21, 70:17, 71:11, 116:6, 139:20, 146:1, 150:15, 151:9, 152:14, 152:16, 158:13, 159:14, 159:17, 160:2, 162:13, 162:24, 177:2, 185:24, 190:19, 210:13, 211:3, 211:7, 220:1,
---	--	---

231:20, 241:18, 243:21, 245:2, 249:14, 255:20, 257:2, 260:5, 260:16, 263:9, 264:15, 265:16, 268:3 studied 74:11 study 258:16, 258:21, 259:5 stuff 80:12, 146:14, 163:17, 170:8, 175:9, 208:10, 209:16 subclass 118:12, 118:13, 118:15, 118:23, 119:19, 119:23, 120:3, 120:4, 120:8, 120:11, 120:14, 124:5, 124:7 subjected 79:3 subjective 131:12 submission 97:20 submit 72:17, 138:14, 192:5 submits 159:20 submittal 95:9 submitted 76:14, 94:20, 95:6, 95:12, 101:13, 104:2, 105:2, 126:20, 127:2, 128:10, 129:16, 130:2, 130:4, 132:3, 136:9, 136:10, 140:18, 163:5,	163:11, 163:15, 165:17, 167:17, 167:20, 167:21, 167:23, 171:6, 192:4, 238:20, 239:3, 257:22 submitting 94:23, 128:5, 136:16, 159:19, 167:16, 192:18 subordinates 80:7, 80:10, 153:5 subsequent 90:15 subsequently 82:14, 163:17, 216:21 suburban 80:11, 80:12, 168:23, 170:2 sudden 118:21 sued 148:2, 148:4 sufficient 129:21, 257:13 suffolk 257:9, 257:22 suggested 218:19 suitable 93:13, 93:15, 188:14, 188:15, 188:17, 188:18, 196:10, 196:11, 213:5 summary 210:19 sunil 65:3, 67:22, 146:6, 150:19 supervision 74:18, 74:23, 75:10 supervisor's 74:16 supplies 80:8	supply 104:4 support 264:11 supposed 100:8, 212:8 suppressed 261:17, 261:20 sure 67:6, 70:16, 70:18, 74:6, 83:8, 97:20, 98:14, 105:23, 115:12, 115:19, 127:16, 136:4, 136:5, 144:15, 158:24, 190:12, 218:2, 235:6, 266:22, 267:3 surplus 78:15 surprise 166:2, 166:8, 214:3, 214:10, 214:12, 214:16, 215:5 surprised 215:17 suspect 95:10, 140:8, 167:21, 168:18, 168:19 suspected 132:18, 137:1, 137:3 swear 69:11 switch 108:7 switzer 65:13 sworn 69:16 system 140:5, 140:14, 153:4, 155:21, 156:13, 156:14, 156:15, 195:10,	213:15, 225:3, 225:13, 248:2, 256:6 systematic 78:1 systems 152:7, 152:8, 152:15 <hr/> T <hr/> table 210:21, 211:2, 216:11 take 70:15, 76:11, 76:18, 78:23, 88:10, 88:15, 89:20, 90:9, 92:14, 92:24, 103:18, 115:10, 115:11, 116:12, 122:19, 140:6, 155:17, 159:13, 159:14, 160:10, 166:8, 167:10, 167:13, 172:21, 178:16, 182:7, 182:12, 182:22, 182:24, 183:1, 183:4, 184:19, 189:20, 192:3, 193:4, 197:7, 202:11, 216:10, 219:18, 244:18, 249:8, 255:18, 256:12, 258:23, 262:13, 267:6 taken 111:13, 163:12, 173:2, 173:3, 269:6 takes 160:1 taking 73:24, 190:15 talk 70:16, 85:6, 94:7, 94:24,
---	---	---	--

<p>97:13, 116:18, 118:14, 120:22, 132:22, 146:20, 148:8, 148:11, 150:23, 238:12 talked 123:23, 124:5, 125:21, 137:18, 150:7, 150:12, 190:9, 198:2, 208:13, 208:16, 229:5, 236:22, 250:7 talking 95:22, 103:15, 116:9, 208:9, 222:24, 223:2, 239:5, 240:2, 258:19 talks 70:12, 245:21 taught 144:15, 144:16, 146:22, 149:24 taurus 134:19, 170:20, 173:17, 179:15, 179:20, 179:22, 196:16, 198:23, 199:8, 199:13, 209:6, 209:7, 213:6, 214:4, 214:5, 216:22, 241:20, 242:7, 242:12, 244:23, 246:14, 246:23, 247:8, 255:18 technically 71:17 technician 234:2 technicians 94:23, 152:19, 156:12 tecum 111:20 tell 69:11, 72:10,</p>	<p>135:14, 140:2, 146:17, 174:4, 178:11, 193:5, 194:19, 202:23, 213:13 tells 204:9 ten 156:8, 234:7 ten-minute 262:13 tens 96:10 term 109:10, 110:19, 190:7, 265:3 terminology 131:21 terms 74:23, 111:8, 126:16, 128:3, 128:21, 128:24, 178:12, 183:11, 250:2 test 72:18, 85:11, 85:15, 102:8, 103:10, 103:18, 103:21, 105:2, 105:4, 106:8, 106:19, 106:20, 106:21, 106:23, 107:6, 109:16, 116:12, 121:10, 122:20, 156:12, 172:22, 178:9, 179:9, 181:19, 181:20, 182:4, 182:24, 183:9, 184:3, 184:5, 189:17, 205:2, 205:4, 205:15, 214:4, 214:13, 216:21, 242:22, 242:23, 243:2 test-to-fired 125:3 test-to-question- ed 124:2, 125:6,</p>	<p>132:7 test-to-test 102:8, 106:20, 106:24, 107:6, 107:14, 107:21, 108:5, 108:19, 109:13, 110:4, 110:10, 110:16, 110:24, 113:19, 113:21, 114:9, 116:12, 116:19, 116:21, 122:4, 123:24, 124:16, 124:23, 125:9, 132:6, 263:11, 263:23, 264:6, 264:11 testified 69:17, 78:11, 218:5, 247:22, 248:9, 257:22, 257:23 testify 78:5, 111:9, 208:19, 218:8, 238:24, 258:5 testifying 78:8, 131:18, 131:20, 229:14, 257:4, 258:15, 264:15 testimony 132:5, 209:12, 219:9, 220:10, 226:17, 229:18, 230:1, 230:16, 247:17, 247:23, 247:24, 255:21, 263:10, 268:4, 268:5, 269:6 tests 102:9, 106:9, 106:13, 107:1, 108:8, 109:20, 123:2, 123:6, 215:7 th 65:6, 70:2,</p>	<p>161:9, 162:8, 162:23, 163:18, 163:22, 168:24, 169:21, 170:23, 171:19, 172:13, 174:8, 174:23, 176:18, 177:4, 186:2, 189:11, 210:17, 245:2, 269:13 thank 69:14, 116:6, 125:19, 168:10, 168:13, 219:16, 235:14, 249:2, 262:11, 267:4 thanks 116:1, 215:3 theirs 224:20 themselves 67:4, 257:15 theory 145:6 thereafter 269:7 therefore 246:12 thickness 246:9 thing 84:11, 103:16, 153:18, 153:20, 168:7, 221:20, 249:24, 257:1, 264:8, 265:20 things 70:19, 89:24, 130:24, 146:12, 153:12, 200:2, 204:13, 207:11, 228:21, 231:19, 232:18, 260:21 think 69:3, 69:4, 76:19, 77:21, 77:22, 79:6, 85:1, 86:1,</p>
---	--	--	---

87:16, 92:4, 92:8, 97:7, 109:1, 112:23, 117:21, 117:22, 135:18, 138:1, 139:14, 142:13, 147:19, 154:23, 155:4, 155:11, 156:23, 157:5, 158:1, 158:3, 158:18, 178:19, 182:19, 193:6, 195:9, 199:3, 200:16, 207:9, 208:6, 212:8, 213:22, 216:4, 216:5, 220:1, 221:11, 221:19, 223:6, 224:24, 225:1, 225:19, 226:8, 239:6, 240:14, 241:14, 243:11, 252:5, 252:24, 255:16, 256:21, 258:2, 260:4 third 172:7, 213:2, 221:20, 246:11 thorough 76:24, 77:14 thought 105:14, 209:5, 248:22 thousands 96:1, 96:2 three 67:24, 75:3, 87:12, 138:9, 138:13, 153:23, 155:22, 172:3 through 83:6, 85:19, 88:13, 91:20, 112:2, 113:8, 113:16, 113:24, 114:21, 116:4, 120:10, 130:22,	132:13, 136:23, 158:9, 158:15, 158:20, 159:24, 160:21, 160:23, 161:2, 163:20, 163:21, 164:22, 164:23, 167:7, 167:10, 181:7, 186:8, 210:10, 215:20, 219:23, 223:7, 228:8, 244:1, 244:9, 244:11, 249:11, 256:10, 256:11, 256:13, 263:6 throughout 154:17, 265:3 throws 71:2 thumb 76:19 time 63:17, 70:12, 78:22, 79:2, 79:12, 80:15, 80:16, 80:18, 81:3, 83:19, 84:14, 84:21, 87:13, 87:22, 88:15, 90:5, 91:11, 94:14, 96:5, 96:17, 98:17, 111:16, 121:13, 127:14, 132:4, 133:9, 146:10, 151:10, 153:6, 153:13, 154:22, 156:1, 156:18, 157:22, 157:23, 159:14, 166:15, 197:7, 211:18, 223:3, 226:2, 231:21, 232:10, 233:18, 234:20, 235:23, 238:24, 239:3, 245:5, 251:21, 252:17, 254:14,	265:6 timeframe 86:11, 157:19 times 78:7, 114:17, 114:21, 114:24, 115:6, 140:19, 184:16, 214:7, 237:13, 258:17, 258:22, 259:14, 259:20 tingstad 64:3, 66:3, 66:15, 67:8, 69:3, 69:19, 69:22, 82:21, 113:11, 113:13, 115:11, 115:15, 115:19, 115:21, 116:1, 116:5, 128:23, 150:19, 150:22, 151:9, 151:15, 151:16, 152:13, 158:6, 158:12, 158:24, 159:3, 159:8, 159:12, 167:5, 180:2, 180:5, 184:12, 184:15, 191:12, 210:5, 210:11, 215:10, 215:14, 216:6, 217:8, 217:15, 217:19, 217:22, 219:4, 219:7, 219:13, 219:18, 219:24, 227:2, 227:12, 229:22, 230:2, 230:7, 230:13, 230:23, 231:9, 235:9, 235:13, 235:15, 238:1, 239:17, 240:4, 240:7, 243:6, 243:15, 243:16, 249:7, 254:19, 260:4, 262:20, 263:3,	264:2, 265:7, 265:12, 265:15, 266:5, 266:12 titone 218:15 tlfd 201:12, 244:24 today 68:3, 70:8, 146:2, 146:4, 146:19, 148:12, 231:2, 231:5, 236:22, 242:2, 242:19, 266:10, 266:13 together 149:18, 257:19 told 86:5 took 76:15, 78:19, 112:17, 116:8, 116:9, 212:4, 213:18, 250:17, 251:20, 255:11, 255:16, 255:17 tool 72:18, 118:7, 141:12, 141:13, 205:24, 206:1 toolmark 71:12, 71:19, 71:23, 71:24, 72:2, 72:4, 72:7, 72:11, 72:21, 73:1, 73:5, 73:8, 73:15, 73:21, 78:16, 81:14, 169:21, 170:1, 171:7, 171:15, 171:19 toolmarks 72:17 tools 118:3, 118:8 top 164:19, 167:15,
---	---	---	--

168:12, 176:15, 176:17, 204:4, 211:2, 253:1 total 92:20, 94:1 totally 93:9 tourists 94:22 toward 250:8, 250:9 town 95:7 trace 175:2, 175:6, 186:15, 191:1 tracemarks 229:4, 229:6 traditional 145:12 train 152:19 trained 71:15, 71:19, 72:2, 72:4, 72:8, 73:9, 73:10, 139:22, 149:6, 149:9, 156:12, 156:15, 157:14, 166:15, 206:16, 206:17, 229:9, 230:5, 230:9 trainee 73:16, 150:6 trainees 149:4 training 72:21, 73:13, 73:20, 73:23, 74:13, 75:10, 75:14, 83:20, 84:5, 131:14, 144:16, 144:17, 149:23, 152:4, 152:19, 155:20, 157:7, 249:24, 255:5, 257:13	trainings 220:22 transcribed 70:9 transcribing 70:14 transcript 68:18, 215:13, 266:10, 266:17, 269:5 transcription 268:5 transcripts 216:18 transfer 108:23 transferred 105:20, 149:7 translate 98:21 translated 99:14 transposed 218:18 trial 209:13, 216:19 trials 146:24 tried 199:9 trigger 203:5, 203:7, 203:10, 203:11, 204:13, 204:19 true 134:22, 216:23, 263:14, 263:22, 268:5, 269:5 truth 69:11, 69:12 try 104:7, 104:13, 104:24, 192:13, 260:22 trying 89:14, 114:7, 133:21, 199:21, 256:14	turn 83:17, 85:2, 88:18, 90:14, 98:4, 131:22, 140:8, 160:1, 165:17, 170:6, 171:5, 190:12, 193:19, 194:6 turns 70:15, 250:17, 251:20 twice 213:17, 255:16 twist 100:1, 101:22, 134:18, 191:21, 246:20, 246:21 twists 100:15 two 73:20, 73:23, 75:1, 75:2, 75:3, 76:23, 83:7, 87:19, 88:7, 92:3, 92:8, 93:5, 102:2, 105:22, 106:24, 107:1, 109:20, 110:10, 121:10, 122:6, 126:22, 129:1, 130:10, 130:13, 130:18, 142:16, 152:7, 152:8, 152:15, 155:3, 160:14, 161:8, 161:23, 163:12, 168:8, 169:3, 173:15, 176:19, 178:4, 178:6, 178:14, 180:19, 180:23, 181:13, 183:9, 208:24, 209:1, 212:4, 214:7, 215:23, 216:19, 224:2, 249:18, 250:20, 251:21, 251:23,	252:18, 253:21, 253:22, 254:3 two-page 223:24 two-year 73:13 type 104:13, 110:17, 113:6, 118:2, 133:16, 187:3, 191:16, 195:21, 200:21 typed 163:3 types 116:21, 123:23, 133:18, 133:22, 133:23 typewriting 269:7 typos 251:7 <hr/> U <hr/> unable 218:17 unauthorized 195:7, 195:10 uncovered 254:14 under 89:14, 90:2, 90:12, 90:15, 92:22, 96:20, 116:12, 134:2, 134:4, 141:20, 141:22, 142:1, 142:3, 142:14, 160:11, 173:9, 174:24, 178:21, 183:12, 184:8, 185:2, 185:8, 191:16, 195:21, 196:10, 203:16, 205:18, 206:7, 213:18, 214:22, 215:2, 216:10, 242:10, 248:5,
---	---	--	---

252:15, 255:4, 256:19, 269:8 underneath 188:14, 188:23, 191:18, 216:10 understand 89:1, 89:4, 89:6, 110:13, 114:7, 114:8, 124:20, 138:16, 138:18, 140:10, 144:22, 144:24, 145:3, 145:5, 174:4, 227:14, 248:22 understanding 146:11, 225:21, 225:22, 236:4, 251:15, 251:17 understood 71:5, 192:10, 202:18 unfired 109:11 unfortunately 120:8, 120:12 unidentifiable 176:3 unionized 153:5 united 63:1 universe 133:23 university 150:1 unless 68:24, 70:22, 261:10 unmark 256:23 unsuitable 173:13, 176:5, 176:9, 213:5 until 91:18, 91:20, 120:9, 123:1, 136:18, 136:19,	157:23, 192:19, 203:6, 249:20, 250:4 unwavering 77:14, 77:24 upper 159:23 upstanding 234:1 use 103:20, 103:22, 104:3, 104:7, 104:9, 104:10, 104:13, 105:1, 105:2, 105:3, 105:5, 105:15, 107:11, 109:4, 109:10, 112:3, 112:7, 112:8, 112:11, 112:14, 114:11, 115:2, 131:7, 145:12, 145:13, 187:11, 200:20, 204:19 uses 144:22, 145:8, 145:12 using 81:20, 81:22 usually 146:23, 194:3, 201:9 <hr/> v <hr/> vacation 96:8, 139:18, 240:24, 241:6 value 175:8 van 65:13 vanderworth 87:2 variation 106:14 variations 122:17 varies 99:23	various 122:5, 123:23, 173:4 vary 106:15, 107:3, 107:13, 107:16 vault 161:10, 161:14, 161:19, 161:24, 186:7 verbal 221:21 verbalize 70:18 verification 79:11, 83:3, 83:10, 84:5, 84:17, 85:7, 85:23, 85:24, 89:5, 93:7, 94:8, 97:3, 97:12, 124:9, 125:4, 180:23, 181:24, 184:20, 189:11, 206:10, 206:12, 242:2, 242:15, 242:21, 245:1, 247:11 verifications 81:2, 81:6, 82:17, 83:18, 83:21, 84:23, 86:13, 86:22, 87:21, 87:23, 88:1, 88:3, 95:24, 96:18, 154:2, 154:3, 154:13, 211:6 verified 91:18, 156:21, 176:8, 181:3, 181:5, 189:8, 196:19 verifier 86:6, 88:10, 88:17, 90:17, 91:20, 92:9, 93:3, 124:23,	125:5, 125:7, 125:10, 125:11, 125:17, 156:20, 156:22, 183:8 verifies 83:5 verify 84:2, 85:20, 88:4, 88:11, 96:9, 96:21, 157:21, 176:11, 184:10, 189:14 verifying 245:20 versus 103:6, 207:3, 215:1, 215:16, 257:5 via 63:18, 63:20, 65:22 vibrating 205:24 victim 95:9, 159:20, 167:22, 168:20 video 70:8, 140:6, 152:20, 152:24, 155:21 videoconference 63:13, 63:18, 65:22, 267:14 view 214:21, 222:18, 224:21, 226:7 viewed 113:8 viewing 83:22 virtue 102:23, 212:15 visible 188:20 visual 206:22 visually 111:5, 111:7,
---	--	---	---

111:18, 112:2 vitae 66:10 volume 63:11 vs 63:7	wavelength 145:19, 145:20 way 77:23, 77:24, 78:12, 86:4, 92:4, 100:8, 101:17, 108:23, 113:7, 124:10, 126:15, 126:16, 127:13, 128:3, 129:17, 130:9, 138:15, 142:10, 156:3, 160:16, 190:13, 203:23, 239:11, 249:11, 258:7 ways 101:9, 104:18, 178:14 we'll 89:3, 118:1, 185:10, 186:8, 203:15, 260:22, 266:16 we're 146:23, 169:19, 170:11, 206:15, 222:7, 222:9, 222:10, 222:24, 232:6, 240:3 we've 95:21, 123:23, 182:2, 220:4, 250:7 weapon 100:23, 101:13, 103:18, 132:18, 133:16, 137:1, 137:4, 137:24, 138:1, 199:14, 200:9, 200:21, 259:19 weapons 72:22, 134:15, 134:17 wear 131:7, 258:16, 259:13	web 63:21 week 86:23, 252:9 weekend 194:3, 239:19 weigh 89:11 weighed 186:20 weight 175:1, 186:19, 191:5, 204:20 weights 191:8, 204:19 welcome 116:7 welty 65:10, 68:2, 148:20, 150:3, 161:4, 161:7, 161:23, 163:17, 165:19, 166:1, 208:22, 209:4, 216:19, 216:23, 216:24, 217:4, 217:11 went 74:9, 115:4, 116:3, 119:7, 119:14, 135:9, 148:24, 154:19, 158:8, 170:5, 171:4, 190:11, 198:3, 210:9, 218:21, 218:22, 219:22, 232:18, 241:6, 243:24, 257:22, 263:5, 263:19 weren't 80:21, 80:22, 207:12, 208:19, 209:9 wesson 134:19 west 64:29, 65:5,	80:11 whatever 90:11, 108:17, 113:8, 118:20, 123:15, 128:1, 138:4, 146:15, 156:2, 165:8, 181:19, 206:13, 225:11 whatsoever 214:13 whereas 123:15, 204:22 whereof 269:12 whereupon 67:1, 115:8, 116:3, 152:11, 158:8, 158:10, 167:3, 210:3, 210:9, 219:22, 243:4, 249:5, 263:5, 263:19, 267:14 whether 86:5, 89:14, 95:10, 100:6, 100:7, 108:10, 147:13, 166:18, 166:19, 199:22, 199:23, 216:8, 229:4, 236:10 white 180:21 whoever 146:14 whole 69:12, 85:12, 88:9, 103:5, 105:24, 108:20, 250:20, 251:24, 252:8, 252:18, 254:20, 254:21, 257:24 wider 115:3 width 102:4, 102:6
---	--	---	--

<p>williams 64:28, 64:34, 67:19, 261:3</p> <p>winter 154:20</p> <p>withheld 261:17, 261:20</p> <p>within 75:5, 117:4</p> <p>without 97:9, 151:1, 239:18</p> <p>witness 68:16, 69:7, 69:9, 69:13, 69:16, 115:10, 115:13, 115:18, 115:20, 151:13, 159:10, 216:4, 217:20, 230:3, 237:24, 239:15, 240:6, 254:18, 262:17, 269:12</p> <p>witnesses 257:17</p> <p>woman 87:1</p> <p>women 255:10</p> <p>wondering 124:19</p> <p>word 107:12, 109:1, 109:4, 187:11</p> <p>wording 135:9, 135:10</p> <p>words 83:2</p> <p>work 71:12, 71:15, 72:21, 74:20, 82:11, 89:5, 89:22, 90:22, 98:5, 115:21, 124:10, 154:1, 155:22, 156:3, 157:21, 158:2, 158:3, 214:11,</p>	<p>219:19, 232:3, 234:4, 234:18, 236:16, 239:20, 251:16</p> <p>worked 73:21, 76:4, 78:11, 82:24, 84:3, 112:6, 139:7, 140:22, 144:7, 144:8, 149:5, 149:6, 149:18, 149:21, 149:24, 150:2, 153:6, 156:7, 171:6, 183:14, 206:5, 211:14, 232:17, 232:23, 234:1, 238:3, 240:15</p> <p>worker 161:20</p> <p>working 71:14, 72:3, 72:7, 73:8, 76:11, 77:15, 78:22, 85:12, 85:14, 87:2, 87:3, 87:4, 87:10, 87:13, 95:1, 95:17, 98:7, 139:4, 139:11, 139:15, 151:22, 151:23, 155:1, 155:15, 157:1, 157:13, 157:16, 193:18, 211:13, 232:15, 234:3, 234:19, 255:21</p> <p>works 144:6</p> <p>worksheet 84:1, 89:12, 91:11, 91:12, 91:14, 98:20, 98:21, 98:24, 110:11, 110:15, 111:2, 113:1,</p>	<p>113:15, 113:18, 113:19, 168:4, 168:5, 168:6, 168:7, 173:24, 174:5, 174:9, 176:15, 182:17, 185:11, 190:16, 192:3, 192:11, 192:20, 193:3, 193:14, 195:18, 197:3, 197:14, 197:19, 227:4, 230:19</p> <p>worksheets 85:15, 134:8, 168:3, 174:1, 180:9, 196:24, 209:10, 220:16, 222:21, 224:11, 224:12, 224:14, 231:12, 250:23</p> <p>workup 88:9, 89:7</p> <p>workups 86:18</p> <p>world 131:20, 132:1</p> <p>would've 134:2, 220:10, 230:9</p> <p>wouldn't 91:17, 91:18, 91:19, 92:11, 92:13, 93:3, 93:6, 97:7, 166:6, 166:12, 183:8, 221:17, 222:6</p> <p>wow 71:15, 233:6</p> <p>wrap 128:7</p> <p>write 89:11, 89:13, 91:18, 91:19, 98:23, 99:1, 110:22, 111:2, 111:6, 134:16,</p>	<p>137:20, 165:2, 194:1, 199:10, 221:22, 244:14</p> <p>writer 217:9</p> <p>writing 77:15, 113:7, 165:6, 179:9, 193:24, 239:18</p> <p>written 85:23, 91:13, 122:13, 136:17, 165:8, 167:19, 177:18, 192:19, 201:12, 248:17</p> <p>wrong 93:17</p> <p>wrote 156:8, 185:4, 199:11, 244:2, 244:6, 248:19</p> <hr/> <p>Y</p> <hr/> <p>year 151:7, 157:17, 178:15, 229:19, 241:15, 252:8, 252:19, 253:15, 253:16, 253:20</p> <p>years 73:20, 73:23, 75:2, 79:18, 79:22, 80:19, 82:10, 82:14, 95:21, 95:23, 153:23, 193:18, 195:8, 207:20, 207:23, 211:18, 235:2, 238:4, 245:17, 251:21, 251:23, 252:19, 253:21, 253:22, 254:3, 254:13, 255:20</p> <p>years-old 71:16</p> <p>yep 116:1, 159:2,</p>
--	--	---	--

169:1 york 245:22 younger 236:17 yourself 85:11, 90:2, 141:18	100002 167:7 100005 176:16, 227:4 100006 185:11 100009 197:4 107.4 191:5 10829 243:19 10830 243:19 11 115:24, 116:4, 142:8, 161:9, 162:8, 162:18, 162:23, 163:18, 163:22, 168:24, 170:19, 170:23, 171:18, 172:3, 172:13, 174:14, 204:23, 269:23 115 205:5, 205:6 12 142:8, 151:10, 158:9, 162:12, 162:19, 162:23, 163:21, 164:3, 164:4, 164:23, 171:18, 172:4, 204:5, 204:23, 210:17 120 64:29 126 64:5 13 65:6, 269:23 14 171:24 1450 244:21 15 70:2, 115:24, 151:10, 156:10,	169:21, 172:1, 174:8, 174:23, 176:18, 177:4, 186:2, 190:21, 198:9, 202:9, 202:11, 202:14, 202:17, 245:2 1517 210:7, 210:16 1518 210:17 158 66:5 16 202:13 167 66:6 17 179:23, 188:24, 189:11, 196:15, 269:13 17025 223:8 175 158:15, 158:20, 159:6 177 158:15, 158:20, 159:7 18 63:8, 73:10, 74:7, 171:19, 255:6, 255:17 19 71:15, 154:6, 172:4, 178:14, 245:17 1975 233:11, 233:12, 233:13, 250:3 1978 71:12 1980 71:16, 71:19, 73:15, 79:5, 86:14 1982 73:15, 75:24,	76:5, 78:4, 153:22 1985 79:16, 79:19, 79:20, 135:17, 153:23, 233:10 1990 86:14, 157:7, 264:6, 264:19, 265:5 1992 154:6, 157:8 1993 151:18, 151:20, 154:7, 154:8, 154:19, 154:24, 155:9, 157:1, 168:15, 168:24, 169:22, 171:19, 174:8, 174:23, 176:18, 177:4, 186:2, 188:24, 189:12, 190:21, 196:15, 208:23, 223:14, 231:18, 241:21, 242:3, 242:15, 242:18, 242:20, 242:22, 245:3, 249:18, 264:24 1995 233:5, 233:7 1997 250:13 1999 250:13 <hr/> 2 <hr/> 2 219:23 2-a 178:1, 178:2, 179:2, 181:13, 181:16, 182:4, 183:12, 220:11, 226:20, 227:5 2-b 178:1, 178:2,
---	---	--	--

178:21, 179:5, 181:13, 181:16, 182:24, 183:13, 205:11, 220:12, 226:20, 227:5 2.0 114:13 2.4 175:1 2/7/16 66:8 20 76:6, 76:8, 116:4, 162:1, 162:2, 206:15, 210:17, 211:18 2000 142:8 2008 250:4 2012 210:17, 242:6, 242:10, 244:3, 245:6 2016 243:18, 244:7 2020 63:16, 269:14 2077 249:10 2081 249:11 210 66:7 219 64:30 22 269:23 24 73:11 243 64:14, 66:9 249 66:10 26 158:9 260 66:13	263 66:14 265 66:15 268 66:16 269 66:17 27 158:9, 162:12, 164:3 276143 269:22 28 162:23, 164:4 <hr/> 3 3 212:8, 263:6 3.0 114:13, 115:4 30 71:16, 114:18, 114:20, 114:21, 114:24, 115:6, 193:18, 195:8, 206:8, 206:16, 206:23, 207:3, 207:7, 211:18, 238:4, 241:15, 254:13 300 140:23 31 219:23 311 64:11 312 64:14, 65:8 3:-cv 63:8 3rd 64:12 <hr/> 4 4 63:17, 263:6, 263:20, 267:15	44 263:6 4426 64:7 48104 64:6 490 64:22 4900 64:22 <hr/> 5 5 179:12 50 207:3, 210:10 500 259:14 50040 63:8 501 258:17, 259:7, 259:10, 259:20, 259:21, 260:1 54 210:10 55001 201:12, 244:24 5902 64:14 5x 114:12, 115:4 <hr/> 6 6/9/93 163:5 60601 65:7 60607 64:13 61101 64:21 61105 64:31 61108 65:16 6122 65:8	6611 65:17 662 64:7 6833 65:15 69 66:3 <hr/> 7 70 206:24, 207:3 734 64:7 7th 168:15, 243:18, 244:7 <hr/> 8 80 225:20 814 65:8 815 64:22, 64:32, 65:17 85 76:5, 78:4 8948 64:32 <hr/> 9 9 162:2, 178:22, 179:12, 224:7 90 89:5, 94:14, 95:22, 112:18, 131:18, 249:20 92 86:15, 154:6, 178:15, 225:18 921 205:15 922 205:15 93 86:16, 179:23,
--	---	--	--

198:9, 225:18,
244:21, 249:20

94

256:10, 256:11,
256:14, 256:15

95

233:10

962

65:17

987

64:32

99

199:16, 244:24,
256:10, 256:11,
256:15

9th

161:2